BISMILLAH PAK FORCES COACHING & EDUCATIONAL ACADEMY
Chak#223 J/B Tehsil Bhowana (Chiniot) bismillahacademy223@gmail.com
Recite 3 Times "***DAROOD O SALAM***" [0300-7980055]

2nd YEAR CHAPTER WISE TESTS

For Grand Test Series 2023

یہ فائل آپ لوگوں کو آگے پبلک گروپس میں شیئر کرنے کی اجازت نہیں ہے۔

PREPARED BY: BISMILLAH PAK FORCES COACHING & EDUCATIONAL ACADEMY

یہ ٹیسٹ یا پھر میٹرک و انٹرمیڈیٹ کی مکمل گرینڈ ٹیسٹ سیریز اپنے ادارے (سکول، کالج ، اکیڈمی) کے نام اور مونوگرام کے ساتھ حاصل کرنے کے لیے وٹس ایپ پر رابطہ کریں۔ مکمل ٹیسٹ سیریز فری حاصل کرنے کے لئے ہمارا آفیشل وٹس ایپ گروپ جوائن کر لیں۔ وٹس ایپ گروپ جوائن کرنے کے لیے اپنا مکمل تعارف لکھ کر نیچے دئیے گئے نمبر پر وٹس ایپ پر میسج بھیجیں۔

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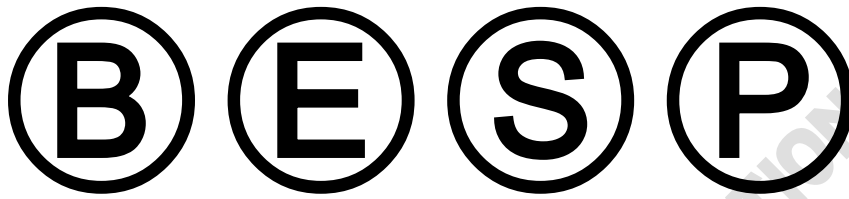
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Name: ____________		Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. ________	Section:________	2nd Year English	Annual Test Series 2023 T1	

Syllabus: **Book-II (Part-I) :** Lesson#1 **Book-II (Part –II) :** Lesson#11 **Book-IV (Good-bye Mr. Chips)** Lesson#1,2 **Idioms & Phrases:** Set of "A , B" ; **Prepositions:** Set of "A , B" **Translation From Urdu to English :** Paragraph # 1 -7 from **Bismillah Academy Notes** ; **Correction:** Use of Noun ; Essay: Essay No#1 to 4 [From Sunshine].

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

ISLAM will be a SUPER-POWER **POWERED BY:** Ⓑ Ⓔ Ⓢ Ⓟ **ISLAM was a SUPER-POWER**

Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	Most of the stars travel alone.	lonely	separately	aloof	exclusively
2	The examiners were partial to Latin and mathematics.	impartial	inclined	detested	hated
3	I learned it thoroughly.	shortly	slowly	completely	really
4	Standing on our little grain of sand, we try to discover the purpose of the universe	gram	practice	chemical	source
5	The scowl he assumed to cover his inward nervousness.	Anger	Frown	Smile	fear
6	But there was more to come, an unguessed epilogue, an encore played to a tragic audience.	Middle part	First part	Repetition	Sad event
7	His he still angry _____the world?	With	By	For	To
8	He burst ______ tears.	With	From	By	Into
9	He is a Miser Man.	(a) He is a miser man.		(b) He is the miser man.	
		(c) He is a Miser.		(d) He is a miserly.	
10	His hairs are black.	(a) His hairs is black.		(b) His hair is black.	
		(c) His hair are black.		(d) His hair were black.	

Q. No. 2 Write short answers to Following questions. **20**

(i)	Why is the universe so frightening?	(vi)	How did Chips face his first class at Brookfield?
(ii)	Describe the rare event that took place two thousand million years ago.	(vii)	Churchill was taught English at Harrow and not Latin and Greek. Was it a gain or loss?
(iii)	Define the life zone or life belt in the Universe?	(viii)	What sort of questions are asked by your examiners?
(iv)	What is the difference between stars and planets?	(ix)	Who was Merivale? And what did he say about Chips' health?
(v)	What were favourite subjects of the Examiners?	(x)	When was Brookfield rebuilt and extended?

SECTION II [NOTE: ATTEMPT ALL QUESTIONS]

Q3: Write an Essay (300-400 words) on any one of the following topics: (15)

i) A PICNIC PARTY ii) MY AIM IN LIFE

Q4: Use the following Idioms/Phrases in your own sentences. (05)

i) At home in ii) At stake iii) Better half iv) Break in v) Bring home

Q5. Translate the following passage into English. (10)

کتابیں بھی عجیب نعمت ہیں۔جب رنج والم کے بادل ہماری زندگی کو تاریک کر دیتے ہیں تو یہ ایک اچھے دوست کی طرح شیریں الفاظ سے ہماری ڈھارس بندھاتی ہیں جب دوست یا رشتہ دار ہماری بدبختی کی وجہ سے ہم سے مُنہ موڑ لیتے ہیں تو یہ ہمارا ساتھ نہیں چھوڑ تیں۔ ہمارا حوصلہ بڑھاتی ہیں۔ ہمت و استقلال سے مشکلات پر غالب آنے کا سبق دیتی ہیں۔ یہ انسانوں کی ہزاروں سال کی دانائی اور تجربے کا نچوڑ ہیں۔

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Name: ______________________		Grand Test Series [*2022-23*]	Time: 120 Mints	Marks: ____ / 60
Roll#. ________	Section:________	2nd Year English	Annual Test Series 2023 T2	

Syllabus: **Book-II (Part-I) :** Lesson#2 **Book-II (Part –II)** : Lesson#11 **Book-IV (Good-bye Mr. Chips)** Lesson#3,4 **Idioms & Phrases:** Set of "C ,D" ; **Prepositions:** Set of "C , D , E" **Translation From Urdu to English :** Paragraph # 08-14 from **Bismillah Academy Notes** ; **Correction:** Use of Pronoun ; Essay: Essay No#5-8 [From Sunshine].

01	Ⓐ Ⓑ Ⓒ Ⓓ	**02**	Ⓐ Ⓑ Ⓒ Ⓓ	**03**	Ⓐ Ⓑ Ⓒ Ⓓ	**04**	Ⓐ Ⓑ Ⓒ Ⓓ	**05**	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	**07**	Ⓐ Ⓑ Ⓒ Ⓓ	**08**	Ⓐ Ⓑ Ⓒ Ⓓ	**09**	Ⓐ Ⓑ Ⓒ Ⓓ	**10**	Ⓐ Ⓑ Ⓒ Ⓓ

ISLAM will be a SUPER-POWER **POWERED BY:** Ⓑ Ⓔ Ⓢ Ⓟ **ISLAM was a SUPER-POWER**

Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	Water had to be carried a considerable distance from the well to the home.	little	source	short	significant
2	Water is carried through a pipeline, or an aqueduct.	pipeline	source	place	waterway
3	Regardless of where people live today.	irrespective of	in respect of	with respect to	normally
4	The house itself was ugly and pretentious; but that didn't matter; it was convenient.	Showy	False	Near	Far
5	He was quite, conventional person and the world, viewed from the haven of Brookfield, seemed to him full of distasteful innovations.	Tower	Ground	Shelter	Bar
6	You can count _______ me in this matter.	At	On	Of	With
7	He deals _______ sugar.	Of	At	In	Up
8	He is not endowed ________ greater talents.	For	In	With	On
9	She gave me a good advice.	(a) She gave me good advice		(b) She gave me a good pieces of advice	
		(c) She gave me a good piece of advice		(d) She gave me good pieces of advice	
10	This pen is my.	(a) This is mine pen.		(b)This pen is mine.	
		(c) This pen mine is.		(d)This is pen mine.	

Q. No. 2 Write short answers to Following questions. **20**

(i)	How has the scientific method helped us in our fight against disease?	**(vi)**	Why had Churchill the greatest regards for the headmaster Mr. Welldon? OR What sort of man was Mr. Welldon?
(ii)	How has the scientific method changed man's behaviour?	**(vii)**	Why was Churchill placed in the lowest division?
(iii)	How was food preserved in the past?	**(viii)**	Who was Collingwood and why did Mr. Chips punish him?
(iv)	Describe some of the superstitions still current in our country.	**(ix)**	What details Chips used to tell Mrs. Wickett when she clears the remains of the tea party?
(v)	Why do the children not get diseases today as compared to the past?	**(x)**	Why was Katherine waving from a dangerous looking ledge?

SECTION II [NOTE: ATTEMPT ALL QUESTIONS]

Q3: Write an Essay (300-400 words) on any one of the following topics: **(15)**

i) MY LAST DAY AT COLLEGE ii) A VISIT TO A HISTORICAL PLACE

Q4: Use the following Idioms/Phrases in your own sentences. **(05)**

i) Close shave ii) Call in iii) Come of iv) Down and out v) Draw a line between

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Q5. Translate the following passage into English. **(10)**

موسمِ گرما شروع ہو چکا ہے۔ کسان گندم کی فصلیں کاٹ چکے ہیں۔ بعض نے اگلی فصل کے لیے تیاریاں مکمل کر لی ہیں۔ گرمی کا دور دورہ ہے۔ ہر چیز اپنی رعنائیت کھو چکی ہے۔ لیکن گرمی نے مچھروں اور کئی دوسرے نقصان دہ کیڑوں کا صفایا کر دیا ہے۔ آم کی فصل بھی پک چکی ہے۔ ہر کوئی گرمیوں کی پہلی بارش کا انتظار کر رہا ہے۔ خدا جلد بارش برسائے تو جان میں جان آئے۔

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Name: ______________________	Grand Test Series [2022-23]	Time: 120 Minits	Marks: ____ / 60
Roll#. ________ Section:________	2nd Year English	Annual Test Series 2023 T3	

Syllabus: **Book-II (Part-I) :** Lesson#3 **Book-II (Part –II)** : Lesson#12 **Book-IV (Good-bye Mr. Chips)** Lesson#5,6 **Idioms & Phrases:** Set of "E , F" ; **Prepositions:** Set of "F ,G" **Translation From Urdu to English :** Paragraph # 15-21 from **Bismillah Academy Notes** ; **Correction:** Use of Adjective ; Essay: Essay No#9-12 [From Sunshine].

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

ISLAM will be a SUPER-POWER **POWERED BY:** Ⓑ Ⓔ Ⓢ Ⓟ **ISLAM was a SUPER-POWER**

Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	The father asserted that God put those tonsils in his son's throat for some good purpose.	suspected	doubted	declared	spoke
2	No boy should be compelled to earn his entire way through college.	like	delighted	provided	forced
3	The parents bring the son here; consequently, they must support him.	as a result	declaration	boldly	response
4	Chips had been a little serious about it rather a little awed.	Aware	Puzzled	Afraid	Confuse
5	You can't satisfy your conscience by keeping them at arm's length.	Punishing	Avoiding	Inviting	Meeting
6	The volte-face was so complete that the authorities were taken as unaware.	Complete change	Revolution	Popularity	Support
7	We have five fingers ____________ each hand	Upon	At	On	With
8	He glanced_________ me casually.	Over	On	In	Of
9	This is a most beautiful scene.	(a) This is the most beautiful scene		(b) This is an most beautiful scene	
		(c) This is a most beautiful scene		(d) This is most beautiful scene	
10	He is more cleverer then I.	(a) He is more the cleverer then I.		(b) He is cleverer then I.	
		(c)He is more cleverest then I.		(d)He is the cleverer then I.	

Q. No. 2	Write short answers to Following questions.		20
(i)	Who are the lazy bluffers and how should they be treated?	(vi)	How did they manage to drive the heavy truck in the trackless desert with its soft sand?
(ii)	What place would be accorded to sportsmen in college?	(vii)	What happened when Christopher mixed a little wine with water?
(iii)	What is the job or duty of college dean?	(viii)	Why did Katherine think that school mastering was so different?
(iv)	How can the teacher and the college doctor avert failure of students?	(ix)	What did Katherine suggest about East End lads?
(v)	How can poor students be helped by college?	(x)	What sort of teacher was Mr. Chips before his marriage?

SECTION II [NOTE: ATTEMPT ALL QUESTIONS]

Q3: Write an Essay (300-400 words) on any one of the following topics: **(15)**

i) EDUCATION FOR WOMEN ii) OUR NATIONAL POET

Q4: Use the following Idioms/Phrases in your own sentences. **(05)**

i) End in smoke ii) Eye opening iii) Fall out iv) Few and far between v) Follow suit

Q5. Translate the following passage into English. **(10)**

درخت انسان کے لیے تین بہت اہم لحاظ سے مفید ہیں۔ وہ اسے لکڑی اور اس سے بنی ہوئی اشیاء فراہم کرتے ہیں۔ وہ اسے سایہ فراہم کرتے ہیں اور خشک سالی اور سیلابوں کو روکنے میں مدد کرتے ہیں۔ اگرچہ ایک حکومت درختوں کی وافر فراہمی کی اہمیت سمجھتی ہے اس کے لیے کسی دیہاتی کو ایسا کرنے کے لیے قائل کرنا مشکل ہے۔ دیہاتی کو اپنا کھانا پکانے کے لیے لکڑی کی ضرورت ہے اور وہ قصبے کے آدمیوں کو لکڑی فروخت کر کے رقم کما سکتا ہے۔ عام طور پر وہ نئے درخت لگانے میں اور ان کی دیکھ بھال کرنے میں انتہائی سست اور لاپرواہ ہوتا ہے۔

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Name: ____________	Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. ________ Section:_______	2nd Year English	Annual Test Series 2023 T4	

Syllabus: **Book-II (Part-I) :** Lesson#4 **Book-II (Part –II)** : Lesson#12 **Book-IV (Good-bye Mr. Chips)** Lesson#7,8 **Idioms & Phrases:** Set of "G , H , I" ; **Prepositions:** Set of "H , I" **Translation From Urdu to English :** Paragraph # 22-28 from **Bismillah Academy Notes** ; **Correction:** Use of Verb ; Essay: Essay No#13-16 [From Sunshine].

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

ISLAM will be a SUPER-POWER POWERED BY: Ⓑ Ⓔ Ⓢ Ⓟ **ISLAM was a SUPER-POWER**

Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	I would savour my happiness with conscious relish.	little	sudden	sad	aware
2	Mythical summer holidays were at hand.	longed	awaited	unreal	real
3	Unspoilt as yet, lying intact and promising just ahead.	flawless	uncanny	untutored	good
4	These hundreds of boys cooped up here is really an unnatural arrangement.	Caged	Freed	Punished	Persuaded
5	Chips felt a softening wave of reminiscence.	Recollections	Aroma	Moderate	Smell
6	The incident gave hardly an impact upon his preoccupations.	Absorption	Laziness	Happiness	Worries
7	I hanker_________ friendship.	By	In	On	for
8	He is ill_________ fever.	From	Of	With	Against
9	He said that I am ill.	(a) He said that I were ill.		(b) He said that he was ill.	
		(c) He said that he is ill.		(d) He said that I are ill.	
10	Ali or Faisal are wrong.	(a)Ali or Faisal are wrong.		(b)Ali or Faisal have wrong.	
		(c)Ali or Faisal is wrong.		Ali and Faisal is wrong.	

Q. No. 2 Write short answers to Following questions. **20**

(i)	What was Daiches' attitude towards the weekend as a schoolboy?	(vi)	Who was Professor Claude Balanguernon? What was he doing in the desert?
(ii)	How did Daiches spend his summer holidays?	(vii)	Describe Christophers experience in the encampment of the king.
(iii)	What did Daiches do with his pocket money?	(viii)	How much interest did Katherine take in school functions?
(iv)	What was Daiches' general view of school life?	(ix)	Why Chips did take class on the day when his wife and child died?
(v)	What are the things he longed for but could not have?	(x)	How Chips paced through Brookfield village?

SECTION II [NOTE: ATTEMPT ALL QUESTIONS]

Q3: Write an Essay (300-400 words) on any one of the following topics: **(15)**

i) VILLAGE LIFE ii) A CRICKET MATCH

Q4: Use the following Idioms/Phrases in your own sentences. **(05)**

i) Give up ii) Hold water iii) High time iv) In the air v) In the pink

Q5. Translate the following passage into English. **(10)**

ابن بطوطہ چودھویں صدی عیسوی کا مشہور سیاح اور مؤرخ تھا۔ اس نے دنیا کے ایک بڑے حصے کی سیاحت کی اور وطن واپسی پر اس سیاحت کا ذکر اپنی کتاب میں کیا۔ یہ کتاب پوری دنیا میں مقبول ہے۔ ابن بطوطہ نے اپنے سفر کا آغاز بائیس سال کی عمر میں حج کے سفر سے کیا۔ مختلف ممالک کی سیر کرتا ہوا ابن بطوطہ ہندوستان آیا۔ اس وقت ہندوستان میں سلطان محمد تغلق کی حکومت تھی۔

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Recite 3 Times "***DAROOD O SALAM***" [0300-7980055]

Name: ____________________________		Grand Test Series [*2022-23*]	Time: 120 Mints	Marks: ____ / 60
Roll#. ________	Section:________	2nd Year English	Annual Test Series 2023 T5	

Syllabus: **Book-II (Part-I) :** Lesson#5 **Book-II (Part –II)** : Lesson#13 **Book-IV (Good-bye Mr. Chips)** Lesson#9,10 **Idioms & Phrases:** Set of "J , K" ; **Prepositions:** Set of "J , K , L" **Translation From Urdu to English :** Paragraph # 29-35 from **Bismillah Academy Notes** ; **Correction:** Use of Adverb ; Essay: Essay No#17-20 [From Sunshine].

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

ISLAM will be a SUPER-POWER **POWERED BY:** Ⓑ Ⓔ Ⓢ Ⓟ **ISLAM was a SUPER-POWER**

Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	The writer leaned against the parapet	plot	parrot	ground	edge
2	The writer could not consume the books one by one in small study fire.	deck	decorate	eat	burn up
3	I improvised a sack and stuffed the books into it.	bought	arranged	picked	threw
4	Chips did not feel diffident about his own work and worth.	Confident	Hesitant	Satisfied	Responsible
5	He had won, bys seniority and ripeness and uncharted no man's land of privilege.	Defeat	Freedom	Respect	Method
6	He jumped ________ the river.	Over	Into	On	For
7	He is known _____________ me.	To	With	By	From
8	He lives___________ honest labour.	On	For	By	Of
9	He runs fastly.	(a) He runs very fastly.		(b) He runs fast.	
		(c) He runs very much fastly.		(d) He runs much fastly.	
10	I met a miser man.	(a) I met the miser man.		(b) I met a miserly man.	
		(c) I met miser.		(d). I met miser man.	

Q. No. 2	Write short answers to Following questions.	20

(i)	What sorts of books were presented by the British public to soldiers?	(vi)	How did they (the Oxford team) make penicillin more effective?
(ii)	Was it interest of soldiers that prompted their action, it was wish to get rid of the useless books?	(vii)	What did Pasteur and Lister contribute in the medical field?
(iii)	Describe the authors midnight venture to throw the books in the river and the suspicion which his action were likely to arouse?	(viii)	What changes appeared in Mr. Chips with the new century?
(iv)	Give the names of the books that the writer threw into the river?	(ix)	What sort of gown did Chips wear after the death of Katherine?
(v)	What did the writer think when he saw the policeman on the way?	(x)	Why was young Grayson preoccupied and careless in class?

SECTION II **[NOTE: ATTEMPT ALL QUESTIONS]**

Q3: Write an Essay (300-400 words) on any one of the following topics: **(15)**

i) WOMEN PLACE IN SOCIETY ii) INFORMATION TECHNOLOGY

Q4: Use the following Idioms/Phrases in your own sentences. **(05)**

i) Jail bird ii) Kith and kin iii) Kill time iv) Let in v) Look for

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Q5. Translate the following passage into English. **(10)**

آج کے دَور میں جنگلات کی اہمیت بہت زیادہ ہے۔ یہ آب وہوا کو خوشگوار بناتے ہیں۔ یہ موسم کی شدت کو کم کرتے ہیں۔ یہ آندھیوں، سیلابوں اور سیم وتھور کو روکتے ہیں۔ بارش کا سبب بنتے ہیں۔ برف کو جلد پگھلنے سے روکتے ہیں۔ زمین کی زرخیزی کو بڑھاتے ہیں۔ جنگلات ملک کی معاشی ترقی میں اہم کردار ادا کرتے ہیں۔ محکمہ جنگلات کو عوام میں جنگلات کی اہمیت اور افادیت کی آگاہی مہم چلانی چاہیے۔

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Name: ____________________		Grand Test Series [*2022-23*]	Time: 120 Mints	Marks: ____ / 60
Roll#. ________	Section:________	2nd Year English	Annual Test Series 2023 T6	

Syllabus: **Book-II (Part-I) :** Lesson#6 **Book-II (Part –II)** : Lesson#13 **Book-IV (Good-bye Mr. Chips)** Lesson#11,12 **Idioms & Phrases:** Set of "L , M" ; **Prepositions:** Set of "M , N , O" **Translation From Urdu to English :** Paragraph # 36-42 ; **Correction:** Use of Preposition ; Essay: Essay No#21-24 [From Sunshine].

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

ISLAM will be a SUPER-POWER **POWERED BY:** Ⓑ Ⓔ Ⓢ Ⓟ **ISLAM was a SUPER-POWER**

Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	It seemed somehow to be a sort of delight.	disregard	easy	relieved	joy
2	What an acquisition I should be to a class	doctor	friend	worth acquiring	patient
3	The only malady I could conclude, I hail not got was house maid's knee.	melody	disease	medicine	result
4	There was such a spontaneous outburst of sympathy.	Impulsive	Futile	Useless	Furious
5	Chips had never envisaged this in his wildest dreams.	Refuted	Imagined	Rejected	Utilized
6	I cannot make _______ this loss.	Over	Up	In	To
7	Food is necessary__________ survival	At	For	Over	With
8	He did not object ________ my proposal.	For	To	Into	By
9	The pen is to write.	(a) The pen is to write on.		(b) The pen is to write for.	
		(c) The pen is to write with.		(d) The pen is to write over.	
10	He is tired from his work.	(a) He is tired of his work.		(b). He is tired after his work.	
		(c) He is tired at his work.		(d). He is tired on his work.	

Q. No. 2 **Write short answers to Following questions.** **20**

(i)	Was he pleased to find he didn't, have it?	(vi)	What was the chief defect of antiseptic method?
(ii)	Why should he be an acquisition to the medical class?	(vii)	How was Flemings' family called a medical family?
(iii)	Describe his visit to the medical man?	(viii)	hat did Ralston say when Chips objected to the word 'insubordination'?
(iv)	What is the significance of the doctor's advice: don't stuff your head with things you don't understand?	(ix)	Why did Ralston accuse Chips of being old-fashioned?
(v)	How had the writer walked into the reading room of the British Museum and how did he return?	(x)	What did Chips say about the captain of the school in his farewell speech?

SECTION II **[NOTE: ATTEMPT ALL QUESTIONS]**

Q3: Write an Essay (300-400 words) on any one of the following topics: **(15)**

i) AN IDEAL STUDENT ii) COMMERCIAL EDUCATION

Q4: Use the following Idioms/Phrases in your own sentences. **(05)**

i) Loudmouth ii) Last straw iii) Make good iv) Mend one's way v) Muster up courage

Q5. Translate the following passage into English. **(10)**

اچھے شہری کی حیثیت سے ہمارا سب سے پہلا فرض یہ ہے کہ ہم اپنے ملک کے قانون کا احترام کریں۔ ان پابندیوں کو خوش اسلوبی سے قبول کریں جو قانون ہم پر عائد کرتا ہے۔ مثلاً ہر قسم کے ٹیکس ادا کریں۔ دوسرے شہریوں کی جان ومال کی حفاظت کریں۔ دوسروں کی آزادی کا خیال کریں۔ اپنے ملک سے محبت کریں۔ اپنے شہر کو صاف رکھیں۔ اپنے ہم وطنوں سے محبت کریں اور ان کی مدد کریں۔

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Name: ______________________	Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. ________ Section:________	2nd Year English	Annual Test Series 2023 T7	

Syllabus: **Book-II (Part-I) :** Lesson#7 **Book-II (Part –II)** : Lesson#14 **Book-IV (Good-bye Mr. Chips)** Lesson#13,14 **Idioms & Phrases:** Set of "N , O" ; **Prepositions:** Set of "P , Q" **Translation From Urdu to English :** Paragraph # 43-49 ; **Correction:** Use of Preposition ; Essay: Essay No#25-28 [From Sunshine].

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

ISLAM will be a SUPER-POWER POWERED BY: Ⓑ Ⓔ Ⓢ Ⓟ **ISLAM was a SUPER-POWER**

Q. No. 1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.

Sr.#	Questions	A	B	C	D
1	O"Certainly", said the accountant, and fetched him.	carried	away	give	show
2	Reckless with misery, I made a plunge.	decision	promise	an initiative	surprised
3	The manager looked relieved but still serious.	relaxed	suspicious	slow	quick
4	Armies clenched in deadlock from the sea to Switzerland.	Sports	Standstill	Faced	Run away
5	There was a mysterious kin of rissole that began to appear on the school menus on Monday.	Meat	Burger	Fish	Minced
6	Just a war-time fluke.	Admiration	Incident	Chance	Occurrence
7	She takes pride_________ her beauty.	On	Of	For	In
8	Do not quarrel __________ petty matters.	At	Upon	For	Over
9	Monkeys live on trees.	(a) Monkeys live on trees.		(b) Monkeys live in trees.	
		(c) Monkeys live at trees.		(d) Monkeys live into trees.	
10	He is joiner then you.	(a) He is joiner from you.		(b)He is joiner to you.	
		(c)He is more joiner then you.		(d)He is joiner then you.	

Q. No. 2	Write short answers to Following questions.	20

(i)	Why did the manager think that Leacock had an awful secret to reveal?	(vi)	Describe the importance and popularity of the silkworm industry in France. What help did Pasteur render in curing the silkworm disease in his country?
(ii)	What was the manager's expectation from Leacock and how was he frustrated?	(vii)	How did Pasteur show the way to other scientists? Give an account of the discoveries.
(iii)	After his misadventure in the bank where did Leacock keep his money?	(viii)	What did Chips feel when Chatteris read out the names of the old students who died in War?
(iv)	How did the accountant appear to Leacock?	(ix)	What did Chatteris tell Chips about the shortage of staff at Brookfield during the war?
(v)	Why did the people in the bank have the impression that Leacock was an invalid millionaire?	(x)	Why did Mr. Chips not want to be appointed the permanent Head of Brookfield?

SECTION II [NOTE: ATTEMPT ALL QUESTIONS]

Q3: Write an Essay (300-400 words) on any one of the following topics: **(15)**

i) SPORTS AND GAMES ii) WHY I LOVE PAKISTAN

Q4: Use the following Idioms/Phrases in your own sentences. **(05)**

i) Now and then ii) Null and void iii) Offhand iv) Once and for all v) Once in a blue moon

Q5. Translate the following passage into English. **(10)**

علم ایک عظیم قوت ہے۔ علم کے ذریعے ہمیں دولت ہی نہیں ملتی بلکہ روحانی سکون بھی حاصل ہوتا ہے۔ ہمارے مذہب میں علم حاصل کرنا ہر شخص پر فرض ہے۔ یہ ایک ایسی چیز ہے جسے کوئی نہیں چرا سکتا۔ علم کے بغیر کوئی انسان اپنی ذات کو بھی نہیں پہچان سکتا اور یوں وہ ساری زندگی اپنے مقصدِ حیات سے بے خبر رہتا ہے۔ علم حاصل کر کے انسان اپنی، اپنے معاشرے اور قوم کی بہتری کا سبب بن سکتا ہے۔

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Name: ____________		Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. ______	Section:______	2nd Year English	Annual Test Series 2023 T8	

Syllabus: **Book-II (Part-I) :** Lesson#8 **Book-II (Part –II)** : Lesson#15 **Book-IV (Good-bye Mr. Chips)** Lesson#15,16 **Idioms & Phrases:** Set of "P , Q" ; **Prepositions:** Set of "R ,S , T" **Translation From Urdu to English :** Paragraph # 50-56 ; **Correction:** Use of Articles ; Essay: Essay No#29-32 [From Sunshine].

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

ISLAM will be a SUPER-POWER **POWERED BY:** ⒷⒺⓈⓅ **ISLAM was a SUPER-POWER**

Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	China has controlled the exodus from countryside.	mass departure	ignorance	education	evil
2	The occidental countries launched a warm hug to China.	eastern	western	northern	southern
3	Mao said instead of things, people are decisive.	insignificant	trivial	unimportant	influential
4	Maynard was a dauntless and impudent boy.	Passionate	Indolent	Cheeky	Paunchy
5	Brookfield had his quaintly humorous saying.	Approximately	Bizarrely	Minutely	Attractively
6	You can rely __________ me in this matters?	In	Of	Off	For
7	He swore __________ Allah.	Of	To	By	From
8	He is tired _________ this routine.	Of	With	From	For
9	Sun rises in east.	(a) Sun rises in the east.		(b) The sun rises in the east.	
		(c)The sun rises in east.		(d) The sun rise in east.	
10	Cow is useful animal.	(a) A Cow is a useful animal.		(b)The Cow is useful animal.	
		(c)The Cow is a useful animal.		(d)Cow is the useful animal.	

Q. No. 2	Write short answers to Following questions.		20
(i)	How can the Chinese economic decentralization be analyzed or compared?	(vi)	What was the reaction of the Turkish patriots to the intention of the Allies to partition the Ottoman Empire?
(ii)	How has the population of the cities been controlled in China?	(vii)	What did Mustafa Kamal do to prepare people for patriotic revolt?
(iii)	When was China got its independence?	(viii)	Were the students paying heed to what Chips was teaching during the air raid?
(iv)	What does Mao Tse Tung say about the power of human beings?	(ix)	What changes were seen in students and masters in the post-war decade?
(v)	What is the working schedule for Industrial workers?	(x)	Where did Chips invest his money after his retirement?

SECTION II [NOTE: ATTEMPT ALL QUESTIONS]

Q3: Write an Essay (300-400 words) on any one of the following topics: (15)

i) A RAILWAY JOURNEY ii) ATOMIC ENERGY

Q4: Use the following Idioms/Phrases in your own sentences. (05)

i) Play with fire ii) Put up with iii) Pros and cons iv) Put off v) Pass away

Q5. Translate the following passage into English. (10)

قائدِ اعظم کی کامیابی چار خوبیوں کی نتیجہ تھی۔ مضبوط کردار، جرأت اور سچائی۔ انہوں نے کہا کہ انسان کی شخصیت کا عمل ان چار ستونوں پر تعمیر ہو سکتا ہے۔ قائد اعظم نے کہا کہ وہ ناکامی کے لفظ سے ناآشنا ہیں اور ایمانداری اور سچائی کو کامیابی کا سرچشمہ خیال کرتے ہیں۔ قائد اعظم نے بطور سیاستدان کبھی جھوٹ سے کام نہیں لیا۔ آپ سیاست میں بھی حضرت محمد ﷺ کے نقش قدم پر گامزن رہے۔ سچائی سے ہی محبت قائد اعظم کی عظمت کا اصل راز ہے۔

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Roll#. ________ Section:________	2nd Year English	Annual Test Series 2023 T9	

Syllabus: **Book-II (Part-I) :** Lesson#9 **Book-II (Part –II)** : Lesson#16 **Book-IV (Good-bye Mr. Chips)** Lesson#17 , **Idioms & Phrases:** Set of "R , S ,T ,U" ; **Prepositions:** Set of "U , V , W" **Translation From Urdu to English :** Paragraph # 57-63 ; **Correction:** Use of Conjunction ; Essay: Essay No#33-36 [From Sunshine].

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

ISLAM will be a SUPER-POWER **POWERED BY: Ⓑ Ⓔ Ⓢ Ⓟ** **ISLAM was a SUPER-POWER**

Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	A general massacre of the Americans is expected:	killing	appreciation	cowardice	intelligence
2	To educate the people was a gigantic task.	beautiful	huge	small	tiny
3	Muscles are destroyed and bones deformed.	strengthened	grown	deshaped	designed
4	Linford said goodbye in a shrill treble.	Faint	Dim	Whisper	High voice
5	"You're growing up into a very cross sort of world, Linford".	Pleasant	Annoyed	Changed	Open
6	I am not unmindful________ the facts.	From	With	Of	Off
7	Sajeela is void ____________ wisdom.	With	Of	To	For
8	He writes _______ blue ink	In	With	At	Of
9	I meet no other man but Ali.	(a)I meet no other mans but Ali.		(b) I meet the no other man to Ali.	
		(c)I meet no other man then Ali.		(d) I meets no other man but Ali.	
10	It is nothing else than pride.	(a)It is nothing else then pride.		(b)It is nothing else from pride.	
		(c)It is nothing else over pride.		(d)It is nothing else but pride.	

Q. No. 2 Write short answers to Following questions. **20**

(i)	What does hunger mean on large scale as viewed by the author?	(vi)	Where had Mrs. Wickett gone a day before Chips died?
(ii)	Describe some great famines of the past.	(vii)	What swung before Chips as he sat down by the fire in November, 1933?
(iii)	What is meant by birth-rate and deathrate and how do they affect the population of a country?	(viii)	What was the talk between Chips and Linford?
(iv)	What have public-health measures to do with increase in population?	(ix)	What were the things Chips had never done?
(v)	Account for the high birth-rate in under-developed countries?	(x)	What were Chips' feelings after Linford left his place?

SECTION II **[NOTE: ATTEMPT ALL QUESTIONS]**

Q3: Write an Essay (300-400 words) on any one of the following topics: **(15)**

i) CORONA PANDEMIC IN PAKISTAN ii) SCIENCE AND SOCIETY

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Q4: Use the following Idioms/Phrases in your own sentences. **(05)**

i) Read a lecture ii) See through iii) Under a cloud iv) Take into account v) Up to the mark

Q5. Translate the following passage into English. **(10)**

تعلیم کا اصل مقصد طلباء کے کردار کی تربیت ہے۔ اگر تربیت نہیں ہے تو تعلیم بے معنی ہے۔ مگر ہمارے کالجوں میں بد نظمی دن بدن بڑھ رہی ہے۔ طلباء اپنی پڑھائی پر توجہ نہیں دیتے۔ وہ اساتذہ کا احترام نہیں کرتے۔ وہ کالج باقاعدگی سے نہیں جاتے۔ وہ اپنا وقت فضول کاموں میں ضائع کرتے ہیں۔ وہ غیر نصابی سرگرمیوں میں حصہ نہیں لیتے۔ بہت سے طالب علم سگریٹ نوشی کی طرف مائل ہو جاتے ہیں۔ ہر طالب علم کے پاس موبائل سیٹ ہونا ضروری ہو گیا ہے۔ اساتذہ اور والدین کے لیے بچوں کی تعلیم و تربیت کو اوّلین ترجیح دینا ضروری ہو گیا ہے۔

Name: ____________________	Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. ________ Section:________	2nd Year English	Annual Test Series 2023 T10	

Syllabus: **Book-II (Part-I) :** Lesson#10 **Book-II (Part –II)** : Lesson#16 **Book-IV (Good-bye Mr. Chips)** Lesson#18 **Idioms & Phrases:** Set of "V , W" ; **Prepositions:** Set of "X , Y , Z" **Translation From Urdu to English :** Paragraph # 64-71 ; **Correction:** Use of Articles ; Essay: Essay No#37-39 [From Sunshine].

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	He decorated it with mosaics brought by Byzantine artists.	flowers	mud	decoration	articles
2	Mosque of Cordova was a rival to the two mosques of Islam in Jerusalem and Mecca,	peer	superior	junior	inferior
3	Spain received envoys from the monarchs of Germany, Italy and France.	people	kings	father	heads
4	The others smiled without answering, and after a pause, Chips began a faint and palpitating chuckle.	Trembling	Strong	Merry	Vibrant
5	Mr Chips saw Merivale stooping over him.	Stopping	Seeing	Moving	Bending
6	Merivale said, "you old ruffian, feeling all right"?	Gentleman	Scoundrel	Nice man	Hero
7	The brave do not yield _____________ the enemy.	On	To	Upon	Into
8	He has zeal ___________ his country.	For	To	In	with
9	The house caught the fire.	(a) The house caught fire.		(b) The house caught for fire.	
		(c) Caught the fire by house.		(d) The house caught the fires.	
10	The wisdom is a unique gift.	(a)A wisdom is a unique gift.		(b)A wisdom is unique gift.	
		(c)Wisdom is a unique gift.		(d)Wisdom are a unique gift.	

Q. No. 2 Write short answers to Following questions. **20**

(i)	What did the Abbasid caliph say on receiving the head of his governor?	(vi)	What did Chips wish when he was on the verge of death?
(ii)	What did Abd-al-Rahman do to make himself strong and to beatify his capital?	(vii)	What happened to Chips?
(iii)	When did Abd-al-Rahman found the great Mosque of Cordova and when it was transformed into a Cathedral?	(viii)	When did Chips die?
(iv)	How did Umayyad regime made Islamic Spain one of the two centres of world culture?	(ix)	What did Cartwright say to Merivale?
(v)	How were the sources of income, multiplied and how it was utilized for the state?	(x)	What would Linford always remember?

SECTION II [NOTE: ATTEMPT ALL QUESTIONS]

Q3: Write an Essay (300-400 words) on any one of the following topics: **(15)**

i) DRUG ADDICTION ii) IMPORTANCE OF MUSLIM UNITY

Q4: Use the following Idioms/Phrases in your own sentences. **(05)**

i) With a grain of salt ii) With open arms iii) With a view to iv) Wear and tear v) Weal and woe

Q5. Translate the following passage into English. **(10)**

دوستی ایک لازوال جذبہ ہے۔ خلوص اور قربانی اس رشتے کو قائم رکھنے کے لیے دو بڑی شرائط ہیں۔ ایک اچھا اور مخلص دوست ہمیشہ اپنے دوست کو اپنی ذات سے مقدم رکھتا ہے۔ ہمیں ابن الوقت اور مطلبی دوست تو بہت مل جاتے ہیں مگر مخلص اور سچے دوست پالینا واقعی بہت بڑی نعمت اور دولت ہے۔ پاکستان اور چائنہ کی دوستی باہمی خلوص اور مفادات کی بہترین مثال ہے۔ دونوں ممالک کے لوگ بھی ایک دوسرے سے دلی لگاؤ رکھتے ہیں۔

BISMILLAH PAK FORCES COACHING & EDUCATIONAL ACADEMY

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Recite 3 Times "DAROOD O SALAM" [0300-7980055]

Name: ______	Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. ______ Section: ______	2nd Year Urdu	Annual Test Series 2023 T1	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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حصہ نثر :	مضامین نویسی:	خطوط نویسی:	گرائمر:
سبق نمبر 1	محسن انسانیت صلی اللہ علیہ وسلم	چھوٹے بھائی کو سگریٹ نوشی کے نقصانات کے بارے میں	مطابقت اور حروف کا صحیح استعمال
حصہ نظم :	قرآن حکیم۔ایک زندہ کتاب	چھوٹے بھائی کو غیر نصابی / ہم نصابی سرگرمیوں میں حصہ لینے کی تلقین	(معروضی نمبر 1 تا 16)
نظم نمبر 1	اسلام۔ایک مکمل ضابطہ حیات	امدادی افعال:	رموز و اوقاف:
حصہ غزل:	اسلامی اخوت	(معروضی نمبر 1 تا 14)	(معروضی نمبر 1 تا 16)
غزل نمبر 1			

نمبر شمار	سوالات	A	B	C	D
1	حضرت عمر بن عبدالعزیز کے غلام کا نام تھا:	وقار	مزاحم	کاظم	سلمان
2	حمص کے عیسائی نے کس کی شکایت کی:۔	مزاحم	ابن جوزی	عبدالملک	عباس
3	وصیت کے لیے مسلمہ نے عمر بن العزیزؒ کو کتنی رقم دینا چاہی؟	ایک لاکھ دینار	دو لاکھ دینار	تین لاکھ دینار	دس لاکھ دینار
4	عمر بن عبدالعزیزؒ تجہیز تکفین کے بعد کتنے دینا بچے۔	پندرہ	دس	بیس	سو
5	رکھنا:	اس نے چپ کا روزہ رکھا ہے	آج کا کام کل پر اٹھا نہ رکھو	اپنے سے زیادہ دوسروں کا خیال رکھو	اپنا مشن جاری رکھو
6	دن ہو-----رات، خدا کو بھی نہ بھولو۔	چاہے	یا	بلکہ	چونکہ
7	میاں بیوی جا:	رہی ہے	رہا ہے	رہے ہیں	رہی ہیں
8	اقوام متحدہ کے اہم اداروں کے نام یہ ہیں ...... اس جملے کے آخر میں کونسی علامت آئے گی؟	سکتہ	ختمہ	رابطہ	تفصیلیہ
9	اگر کسی کو بلانا یا مخاطب کرنا مقصود ہو تو کونسی علامت آتی ہے؟	سوالیہ	رابطہ	ندائیہ	تفصیلیہ
10	سکتے کی علامت کی نشاندہی کیجیے:	؛	؟	()	،

سوال نمبر2۔ حصہ نظم اور حصہ غزل میں سے ایک، ایک شعر کی تشریح کیجیے: **10نمبر**

(حصہ نظم) (i) گواہی دے رہی ہے اس کی یکتائی پہ ذات اس کی — دوئی کے نقش سب جھوٹے' ہے سچا ایک نام اس کا

(ii) سراپا معصیت میں ہوں سراپا مغفرت وہ ہے — خطا کوشی روش میری خطا پوشی ہے کام اس کا

(حصہ غزل) (i) دیدوادید جو ہو جائے، غنیمت سمجھو — جوں شرر ورنہ ہم اے اہل نظر جاتے ہیں

(ii) آہ! معلوم نہیں، ساتھ سے اپنے شب و روز — لوگ جاتے ہیں چلے، سو یہ کدھر جاتے ہیں

سوال نمبر3۔ سیاق وسباق کے حوالے سے تشریح کیجیے۔ **10نمبر**

بن عبدالعزیز کو تمام خاندان میں ابنِ سلیمان سے بہت محبت تھی۔ وہ اپنی جاگیر کی سند لے کر آئے کہ میری زمین آپ کیوں چھینتے ہیں؟ فرمایا کہ پہلے یہ زمین کس کے قبضے میں تھی؟ بولا کہ حجاج کے۔ فرمایا کہ حجاج کی اولاد کا حق ہے تم کون ہوتے ہو؟ ابن سلیمان نے کہا، اصل میں یہ زمین عام مسلمانوں کی تھی۔

سوال نمبر4۔ مندرجہ ذیل سبق کا خلاصہ تحریر کیجیے اور مصنف کا نام بھی لکھیے: **10نمبر**

مناقب عمر بن عبدالعزیزؒ

سوال نمبر5: نظم "حمد" کا خلاصہ تحریر کریں۔ **05نمبر**

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سوال نمبر6۔" اسلام۔ایک مکمل ضابطہ حیات" کے عنوان پر ایک مفصل مضمون لکھیں۔ **10نمبر**

سوال نمبر7۔ چھوٹے بھائی کو غیر نصابی / ہم نصابی سرگرمیوں میں حصہ لینے کی تلقین پر خط لکھیے۔ **05نمبر**

Name: ______________________	Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. ________ Section:________	2nd Year Urdu	Annual Test Series 2023 T2	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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حصہ نثر :	مضامین نویسی:	خطوط نویسی:	گرائمر:
سبق نمبر 2 **حصہ نظم :** نظم نمبر 2 **حصہ غزل:** غزل نمبر 1	ایک ہوں مسلم حرم کی پاسبانی کے لیے عیدین ہمارا قائد نظریہ پاکستان	چھوٹی بہن کو میٹرک میں آرٹس کی بجائے سائنس کے مضامین پڑھنے کی تلقین والد صاحب کو صحت افزامقام کی سیر کے مشاہدات وتاثرات **امدادی افعال:** (معروضی نمبر 1 تا 14)	**مطابقت اور حروف کا صحیح استعمال** (معروضی نمبر 17 تا 32) **رموزواوقاف:** (معروضی نمبر 17 تا 32)

نمبر شمار	سوالات	A	B	C	D
1	مسلم لیگ کا قیام عمل میں آیا:	1906	1930	1940	1947
2	"تشکیل پاکستان" کے مصنف ہیں:	میاں بشیر احمد	مولانا حالی	مولانا شبلی	مولوی ذکا اللہ
3	سید احمد بریلوی کب شہید ہوئے:	1820ء	1816ء	1831ء	1857ء
4	شبلی نے لکھنؤ میں کونسا تعلیمی ادارہ قائم کیا؟	جامعہ عثمانیہ	جامع قاسمیہ	جامعہ شبلی	ندوۃ العلماء
5	وہ بے نماز ہے--------تعلیم یافتہ ہے۔	البتہ	اگرچہ	حالانکہ	نیز
6	آپ مجھ پر بھروسہ کرسکتے ہیں---------میں نے کبھی جھوٹ نہیں بولا۔	لہذا	اگرچہ	جب کہ	کیوں کہ
7	درست علامت خط کی نشان دہی کیجیے:	{}	()	---	:
8	حضرت علیؓ نے فرمایا: علم حاصل کرو۔ فرمان کے دونوں طرف کونسی علامت آئے گی؟	؟	!	""	؛
9	بیٹھنا:	آرام سے بیٹھ جاؤ	سلیمہ نوکری سے ہاتھ دھو بیٹھی	استادی کرسی پر بیٹھا	بچے کو مدرسے میں بٹھا دو
10	آؤ:	یہاں آؤ	اسلم صبح سویرے آیا	اسے سکول چھوڑ آؤ	تمہیں میرے گھر آنا

سوال نمبر2۔ حصۂ نظم اور حصۂ غزل میں سے ایک،ایک شعر کی تشریح کیجیے: **10نمبر**

(حصہ نظم) (i) سربہ سر مہر ومروت، سربہ سر صدق وصفا — سربہ سر لطف وعنایت، سربہ سر خیر البشر
(ii) در پہ پہنچے کس طرح وہ بے نوا، بے بال وپر — اک نظر تائب کے حال زار پر، خیر البشر

(حصہ غزل) (i) موت! کیا آکے فقیروں سے تجھے لینا ہے — مرنے سے آگے ہی، یہ لوگ تو مر جاتے ہیں
(ii) آہ! معلوم نہیں، ساتھ سے اپنے شب وروز — لوگ جاتے ہیں چلے، سو یہ کدھر جاتے ہیں

سوال نمبر3۔ سیاق وسباق کے حوالے سے تشریح کیجیے۔ **10نمبر**

پاکستان کے قیام سے نہ صرف ہندوستان کے برعظیم اور ایشیا میں بلکہ ساری اسلامی دنیا میں ایک ایسا قوت آفرین تغیر رونما ہو گیا ہے جس کے غیر معمولی نتائج کا دنیا ابھی صحیح طور پر اندازہ نہیں کرسکتی۔ ادھر یہ امر پاکستان کی ملتِ اسلامیہ پر روز بروز واضح ہو رہا ہے کہ اگر اسے اپنی اور دنیا کی طرف اپنا اسلامی اور انسانی فرض ادا کرنا ہے۔

سوال نمبر4۔ مندرجہ ذیل سبق کا خلاصہ تحریر کیجیے اور مصنف کا نام بھی لکھیے: **10نمبر**

تشکیل پاکستان

PREPARED BY: BISMILLAH PAK FORCES COACHING & EDUCATIONAL ACADEMY
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سوال نمبر5: نظم "نعت" کا خلاصہ تحریر کریں۔ **05نمبر**

سوال نمبر6۔ "نظریہ پاکستان" کے عنوان پر ایک مفصل مضمون لکھیں۔ **10نمبر**

سوال نمبر7۔ والد صاحب کو صحت افزامقام کی سیر کے مشاہدات وتاثرات کے متعلق خط لکھیے۔ **05نمبر**

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Recite 3 Times "DAROOD O SALAM" [0300-7980055]

Name: ______________	Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. _______ Section:_______	2nd Year Urdu	Annual Test Series 2023 T3	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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حصہ نثر :	مضامین نویسی:	خطوط نویسی:	گرائمر:
سبق نمبر 3 حصہ نظم : نظم نمبر 3 حصہ غزل: غزل نمبر 2	میرا وطن۔۔۔پاکستان دفاع پاکستان ہمارے قومی شاعر۔۔۔۔علامہ اقبال علاقائی تعصبات اور ہماری ذمہ داریاں	والد صاحب کو امتحانی کارکردگی کے بارے میں والدہ کو ہاسٹل کے شب و روز کے بارے میں **امدادی افعال:** (معروضی نمبر 15 تا 28)	**مطابقت اور حروف کا صحیح استعمال** (معروضی نمبر 33تا48) **رموزواوقاف:** (معروضی نمبر 33تا48)

نمبر شمار	سوالات	A	B	C	D
1	نواب محسن الملک نے ریاست حیدرآباد کا بجٹ کس ملک کے نمونے پر مرتب کیا؟	سعودی عرب	چین	ترکی	مصر
2	نواب محسن الملک نے حیدرآباد میں۔۔۔۔کا محکمہ قائم کیا؟	فنانس	بندوبست	بجٹ	مال گزاری
3	بدرالدین طیب کون تھے؟	سرسید کے قریبی دوست	علی گڑھ کی حامی	علی گڑھ کے مخالف	علی گڑھ کے استاد
4	سرسید احمد خان کا انتقال ہوا۔	1885ء	1878ء	1898ء	1901ء
5	اس نے محنت کی------پاس ہو گیا۔	اس لیے	البتہ	چونکہ	اگرچہ
6	علی نے کتاب، قلم اور کاپی۔	خریدی	خریدے	خریدیں	خریدا
7	ختمہ کی علامت ہے:	:۔	۔	،	؟
8	اسلم......امجد اور اکرم بھائی ہیں۔	____	؛	!	،
9	پانا:	محنتی آدمی اپنا مقصد پالیتا ہے	محض دولت پالینا کامیابی نہیں	خبردار چور جانے نہ پائے	ہر شخص کئے کا پھل پاتا ہے
10	رہنا:	یہ کام میرے ذمے رہنے دو	وہ گاڑی سے ہر گیا	چھت ٹپک رہی ہے	کراچی میں رہنا آسان نہیں

سوال نمبر2۔ حصہ نظم اور حصہ غزل میں سے ایک،ایک شعر کی تشریح کیجیے: 10نمبر

(حصہ نظم) (i) بچھا فرش زمرد اہتمام سبزہ تر میں — چلی مستانہ وش بادصبا عنبر فشاں ہو کر

(ii) ہوائے شوق میں شاخیں جھکیں خالق کے سجدے کو — ہوئی تسبیح میں مصروف ہر پتی زباں ہو کر

(حصہ غزل) (i) کی فراق داغ وگل میں کہ جس گل میں بو نہ ہو — کس کام کا وہ دل کہ جس دل مین تو نہ ہو

(ii) جوں شمع جمع ہو ویں گر اہل زباں ہزار — آپس میں چاہیے کہ کبھی گفتگو نہ ہو

سوال نمبر3۔سیاق وسباق کے حوالے سے تشریح کیجیے۔ 10نمبر

یوں تو انفرادی اور اجتماعی حیثیت سے نواب صاحب مرحوم کے احسانات حیدرآباد اور اہل حیدرآباد پر بے شمار تھے ریاست کے نظم ونسق میں چند چیزیں خاص ان کی یادگار ہیں۔مثلاً ریاست کا بجٹ نواب صاحب سے مرتب کیا اور مصر کے بجٹ کے نمونے پر تھا جو وہاں انگریزی نگرانی کے بعد پہلی بار تیار ہوا تھا۔

سوال نمبر4۔مندرجہ ذیل سبق کا خلاصہ تحریر کیجیے اور مصنف کا نام بھی لکھیے: 10نمبر

محنت پسند خرد مند

سوال نمبر5: نظم " خدا سر سبز رکھے اس چمن کو مہرباں ہو کے **" کا خلاصہ تحریر کریں۔** 05نمبر

سوال نمبر6۔ " ہمارے قومی شاعر۔۔۔۔علامہ اقبال **" کے عنوان پر ایک مفصل مضمون لکھیں۔** 10نمبر

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سوال نمبر7۔ چھوٹے بھائی کو غیر نصابی / ہم نصابی سرگرمیوں میں حصہ لینے کی تلقین پر خط لکھیے۔ 05نمبر

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Roll#. _______ Section:_______	2nd Year Urdu	Annual Test Series 2023 T4	

01	ⒶⒷⒸⒹ	02	ⒶⒷⒸⒹ	03	ⒶⒷⒸⒹ	04	ⒶⒷⒸⒹ	05	ⒶⒷⒸⒹ
06	ⒶⒷⒸⒹ	07	ⒶⒷⒸⒹ	08	ⒶⒷⒸⒹ	09	ⒶⒷⒸⒹ	10	ⒶⒷⒸⒹ

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حصہ نثر : سبق نمبر 4 حصہ نظم : نظم نمبر 4 حصہ غزل: غزل نمبر 2	مضامین نویسی: تعمیر وطن میں خواتین کا کردار قومی زندگی میں نظم وضبط کی اہمیت ماحولیاتی زندگی اور اس سے بچاؤ کی تدابیر سماجی برائیاں اور ان کا سدباب	خطوط نویسی: چچا کو سالگرہ کا تحفہ ملنے پر بڑے بھائی کو اپنے مستقبل کے عزائم کے بارے میں امدادی افعال: (معروضی نمبر 29 تا 42)	گرائمر: مطابقت اور حروف کا صحیح استعمال (معروضی نمبر 49 تا 64) رموز واوقاف: (معروضی نمبر 49 تا 64)

نمبر شمار	سوالات	A	B	C	D
1	محنت پسند خرد مند کے مصنف ہیں۔	شبلی نعمانی	ابن انشا	محمد حسین آزاد	میاں بشیر احمد
2	محنت پسند خرد مند کس کا بیٹا تھا؟	ہمت اور تحمل	احتیاج اور افلاس	تدبیر اور مشورہ	حسد اور فریب کا
3	احتیاج وافلاس کے بیٹے کا نام تھا؟	مشورہ	خسرو آرام	تدبیر و مشورہ	محنت پسند خرد مند
4	محنت پسند خرد مند نے لقب حاصل کیا۔	امیر محنت پسند	شاہِ محنت پسند	سالار محنت پسند	سلطانِ محنت پسند
5	"ادبی دنیا" بند---------:	ہو گیا	ہو گئی	ہوئی	ہو چکی
6	-------کچھ بھی ہو، اس پر اثر نہیں ہو گا۔	چنانچہ	چاہے	مگر	اگر
7	قوسین کی تعریف ہے:	خاتمے کی علامت	تفصیل بیان کرنا	سوال پوچھنا	جملہ معترضہ کی علامت
8	:۔ یہ علامت اردو میں کہلاتی ہے:	وقفہ	ختمہ	فجائیہ	تفصیلیہ
9	چاہنا:	علی ترقی کرنا چاہتا ہے	شاہد سدرہ کو چاہتا ہے	تمھیں کیا چاہیے	وہ کیا چاہ رہا ہے
10	دینا:	اس نے فقیر کو خیرات دی	اس نے سانپ کو مارا	یہ قلم مجھے دو	تم نے اسے کتنے پیسے دیے

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سوال نمبر2۔ حصہ نظم اور حصہ غزل میں سے ایک، ایک شعر کی تشریح کیجیے: **10نمبر**

(حصہ نظم) (i) کسی قوم کا جب الٹتا ہے دفتر — تو ہوتے ہیں مسخ ان میں پہلے تونگر

(ii) پہننے کو کپڑا نہ کھانے کو روٹی — جو تدبیر الٹی تو تقدیر کھوٹی

(حصہ غزل) (i) ہووے نہ حول و قوت اگر تیری درمیاں — جو ہم سے ہو سکے ہے، سو ہم سے کبھو نہ ہو

(ii) جو کچھ کہ ہم نے کی ہے تمنا، ملی مگر — یہ آرزو رہی ہے کہ کچھ آرزو نہ ہو

سوال نمبر3۔ سیاق وسباق کے حوالے سے تشریح کیجیے۔ **10نمبر**

اس بدنیتی کی سزا یہ ہوئی کہ احتیاج اور افلاس نے بزرگانہ لباس پہنا اور ایک پیرزادے بن کر آئے۔ حضرت انسان، کہ طمع خام کے خمیر تھے، خسرہ آرام کی عقیدت چھوڑ کر ان کی طرف رجوع ہوئے۔ چنانچہ سب اُن کے مرید اور معتقد ہو گئے اور ہر شخص اپنے تئیں حاجت مند ظاہر کر کے فخر کرنے لگا۔

سوال نمبر4۔ مندرجہ ذیل سبق کا خلاصہ تحریر کیجیے اور مصنف کا نام بھی لکھیے: **10نمبر**

i. محنت پسند خرد مند

سوال نمبر5: نظم " اسلامی مساوات "کا خلاصہ تحریر کریں۔ **05نمبر**

سوال نمبر6۔ " تعمیر وطن میں خواتین کا کردار " کے عنوان پر ایک مفصل مضمون لکھیں۔ **10نمبر**

سوال نمبر7۔ بڑے بھائی کو اپنے مستقبل کے عزائم کے بارے میں خط لکھیے۔ **05نمبر**

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01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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حصہ نثر :	مضامین نویسی:	خطوط نویسی:	گرائمر:
سبق نمبر 5 **حصہ نظم :** نظم نمبر 5 **حصہ غزل:** غزل نمبر 3	منشیات۔۔معاشرے کا جان لیوا روگ معاشرے پر ٹیلی ویژن کے اثرات ہمارے دیہات اور ان کے مسائل حب وطن کے تقاضے	دوست کو امتحان میں کامیابی پر مبارکباد دوست کو اس کی بہن کی شادی میں شرکت کے بارے میں **امدادی افعال:** (معروضی نمبر 43 تا 56)	**مطابقت اور حروف کا صحیح استعمال** (معروضی نمبر 65 تا 80) **رموز و اوقاف:** (معروضی نمبر 65 تا 80)

نمبر شمار	سوالات	A	B	C	D
1	اکبری کی شادی ہوئی:	محمد کامل سے	محمد عاقل سے	محمد فاضل سے	محمد عالم سے
2	زلف کون تھی:	گھریلو ملازمہ	مزاج دار سہیلی	حجن کی بھانجی	گھریلو عورت
3	اکبری نے تبرکات سے کونسی دو چیزیں پسند کیں؟	آزار بند اور موتیوں کی لڑی	خاک شفا اور ناد علی	نادِ علی	نادِ علی اور سرمہ اور پونگیں
4	حجن نے تبرک کے طور پر اکبری کو مفت دی:	یاقوت کی انگوٹھی	فیروزے کی انگوٹھی	سونے کی انگوٹھی	موتیوں کی جوڑی
5	میں نے ملتان نے آموں کو----------	میٹھا پایا	میٹھے پائے	میٹھے پایا	کھٹے پایا
6	وہ صرف چور ہی نہیں--------قاتل بھی ہے۔	جبکہ	حالانکہ	اس لیے	بلکہ
7	! کی علامت استعمال ہوتی ہے:	حیرت کے اظہار کے لیے	غم یا خوشی کے اظہار کے لیے	مخاطب کرنے کے لیے	تینوں درست
8	ورزش کے فوائد درج ذیل ہیں:	؛	!	:۔	؟
9	آنا:	بازار سے آٹا لے آؤ	آیئے آیئے تشریف لایئے	اسے باتیں کرنے کا ڈھب آتا ہے	گھر میں مہمان آنے والے ہیں
10	لینا:	میں نے پھل کھا لیے	ذرا مٹھائی لے آؤ	ندیم نے کار لی	میرا اسکوٹر لے جانا

سوال نمبر2۔ حصہ نظم اور حصہ غزل میں سے ایک،ایک شعر کی تشریح کیجیے: 10نمبر

(حصہ نظم) (i) نشان بلال نما راہ میں بتاتے ہیں — کہ تھوڑی دور پہ آگے سوار جاتے ہیں

(ii) زمیں کا نور ہیں اور آسماں کی زینت ہیں — کسی کی شوخی رفتار کی علامت ہیں

(حصہ غزل) (i) رونے سے کام بس کہ شب اے ہم نشیں رہا — آنکھوں پہ کھینچتا میں سر آستیں رہا

(ii) رکھوں میں روک کیوں کر دل میں اپنے کو مصحفیؔ — میرے کہے میں اب تو میرا دل نہیں رہا

سوال نمبر3۔سیاق وسباق کے حوالے سے تشریح کیجیے۔ 10نمبر

غرض خوب مزے کی لڑائی دونوں میاں بی بی میں ہوئی۔ تمام محلہ جمع ہو گیا۔بات پر بات چلی تو معلوم ہوا کہ اسی حجن نے کنجی کی گلی میں احمد بخش خان کی بی بی کا تمام زیور اس حیلے سے ٹھگ لیا کہ ایک فقیر سے دونا کرادوں گی۔روئی کٹڑے میں میاں مسیتا کی بیٹی سے ایسی محبت بڑھائی کہ زیور بہانے سے اڑا لے گئی۔

سوال نمبر4۔مندرجہ ذیل سبق کا خلاصہ تحریر کیجیے اور مصنف کا نام بھی لکھیے: 10نمبر

اکبری کی حماقتیں

سوال نمبر5: نظم" سراغِ راہرو"کا خلاصہ تحریر کریں۔ 05نمبر

سوال نمبر6۔" معاشرے پر ٹیلی ویژن کے اثرات "کے عنوان پر ایک مفصل مضمون لکھیں۔ 10نمبر

سوال نمبر7۔ دوست کو اس کی بہن کی شادی میں شرکت کے بارے میں خط لکھیے۔ 05نمبر

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01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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حصہ نثر :	مضامین نویسی:	خطوط نویسی:	گرائمر:
سبق نمبر 6	اردو بہ حیثیت قومی زبان	دوست کو اس کے چھوٹے بھائی / والدہ کی وفات پر اظہارِ تعزیت	مطابقت اور حروف کا صحیح استعمال
حصہ نظم :	اردو ذریعہ تعلیم	دوست کو چھٹیاں گاؤں میں گزارنے کی دعوت	(معروضی نمبر 81 تا 106)
نظم نمبر 6	محنت کی عظمت	امدادی افعال:	رموز واوقاف:
حصہ غزل:	سائنس اور ہم	(معروضی نمبر 57 تا 70)	(معروضی نمبر 81 تا 106)
غزل نمبر 3			

نمبر شمار	سوالات	A	B	C	D
1	سبق "پہلی فتح" کے مطابق محمد بن قاسم نے بصرہ میں کتنا قیام کیا؟	دو دن	تین دن	چار دن	پانچ دن
2	بحوالہ "پہلی فتح" فوج کی قیادت کتنے سال کے نوجوان کے سپرد تھی؟	سترہ سال	اٹھارہ سالہ	انیس سالہ	بیس سالہ
3	سبق "پہلی فتح" نسیم حجازی کے مشہور ناول سے لیا گیا ہے؟	شاہین	انسان اور دیوتا	محمد بن قاسم	آخری چٹان
4	جنگ قادسیہ میں مسلمانوں کے سپہ سالار تھے:	سعید بن زبیر رضی اللہ عنہ	سعید بن امیہ رضی اللہ عنہ	سعد بن ابی وقاص رضی اللہ عنہ	سعد بن نوفل رضی اللہ عنہ
5	اس کا باغ د کانیں اور زمین سب بک-------	گیا	گئی	گئے	گئیں
6	ہم نے سنگتروں کو---------:	میٹھے پائے	میٹھا پایا	میٹھے پایا	میٹھی پائی
7	کسی کا قول اس کے الفاظ میں نقل کرنا ہو تو قول کی ابتدا اور اختتام پر علامت لگتی ہے۔	وقفہ کی	سوالیہ کی	رابطہ کی	واوین کی
8	مختصر ٹھہراؤ کے لیے علامت استعمال ہوتی ہے۔	سکتہ	وقفہ	رابطہ	ختمہ
9	بیٹھنا:	سب آپ کے انتظار میں بیٹھے ہیں	آؤ، یہاں بیٹھو	اک پرندہ میری دیوار پہ آبیٹھا ہے	وہ میرے حق میں بیٹھا گیا ہے
10	جانا:	وہ لاہور چلا گیا ہے	وہ کل جائے گا	اب تم جاسکتے ہو	وہ کالج جاتا رہتا ہے

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سوال نمبر2۔ حصہ نظم اور حصہ غزل میں سے ایک، ایک شعر کی تشریح کیجیے: 10نمبر

(حصہ نظم) (i) تھا کبھی علم آدمی، دل آدمی، پیار آدمی — آج کل زر آدمی، قصر آدمی، کار آدمی

(ii) پہلے کشتی ڈوب جاتی تھی نظر کے سامنے — اب گرے گا بحر اوقیانوس کے پار آدمی

(حصہ غزل) (i) ہمدم جو دیکھتا ہوں تو پہلو میں دل نہیں — بیٹھا تھا اس کے پاس، مرا دل وہی رہا

(ii) آخر کو ہو کے لالہ اُگا نو بہار میں — خونِ شہید عشق نہ زیر زمیں رہا

سوال نمبر3۔سیاق وسباق کے حوالے سے تشریح کیجیے۔ 10نمبر

دمشق سے روانگی کے وقت محمد بن قاسم کی فوج کی تعداد کل پانچ ہزار تھی لیکن جب وہ بصرہ سے روانہ ہوا تو اس کے لشکر کی مجموعی تعداد بارہ ہزار تھی جن میں سے چھ ہزار سپاہی گھڑسوار تھے، تین ہزار پیدل اور تین ہزار سامان رسد کے اونٹوں کے ساتھ تھے۔

سوال نمبر4۔مندرجہ ذیل سبق کا خلاصہ تحریر کیجیے اور مصنف کا نام بھی لکھیے: 10نمبر

ii. پہلی فتح

سوال نمبر5: نظم "آدمی" کا خلاصہ تحریر کریں۔ 05نمبر

سوال نمبر6۔ "محنت کی عظمت" کے عنوان پر ایک مفصل مضمون لکھیں۔ 10نمبر

سوال نمبر7۔ دوست کو اس کے چھوٹے بھائی / والدہ کی وفات پر اظہارِ تعزیت خط لکھیے۔ 05نمبر

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Roll#. _______ Section:_______	2nd Year Urdu	Annual Test Series 2023 T7	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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حصہ نثر : سبق نمبر 8،7 حصہ نظم : نظم نمبر 7 حصہ غزل: غزل نمبر 4	مضامین نویسی: کالج کی زندگی، کالج میں میرا پہلا دن، میری پسندیدہ کتاب، میرا پسندیدہ اخبار	خطوط نویسی: ناراض دوست کو منانے کے لیے خط، ڈاکٹر دوست کو بیرون ملک سے وطن آنے کا مشورہ۔ امدادی افعال: (معروضی نمبر 71 تا 85)	گرائمر: مطابقت اور حروف کا صحیح استعمال (معروضی نمبر 107 تا 125) رموز واوقاف: (معروضی نمبر 107 تا 125)

نمبر شمار	سوالات	A	B	C	D
1	ڈاکٹر زیدی کا ٹمپریچر کا کتنا تھا؟	100	101	102	103
2	ڈرامہ دستک میں بیگم زیدی کی عمر ہے:	پینتالیس سال	پچاس سال	پچپن سال	ستاون سال
3	بیگم اختر ریاض الدین کی جائے پیدائش ہے:	لکھنؤ	کلکتہ	دہلی	ہوائی
4	ہوائی کا وقت جاپان سے پیچھے ہے:	2 گھنٹے	5 گھنٹے	20 گھنٹے	24 گھنٹے
5	میں نے عالیہ کے بالوں کو----------۔	لمبی دیکھا	لمبا دیکھا	لمبے دیکھے	لمبے دیکھا
6	اس نے گھوڑا گاڑی خرید-------	لیا	لیے	لی	لیں
7	ایم......اے، پی......ایچ......ڈی میں علامت آئے گی۔	رابطہ	سکتہ	وقفہ	ختمہ
8	اف......کتنی تیز دھوپ ہے:	!	،	؛	؟
9	کرنا:	بحث مت کریں	میرا کام ضرور کرنا	صبح سویرے اٹھا کرو	آپ بھی کمال کرتے ہیں
10	رہنا:	والدین کے ساتھ رہنا چاہیے	پڑھنے کے بعد سوئے رہو	یار! گھر میں رہنا	تم میرے پاس رہو

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سوال نمبر2۔ حصہ نظم اور حصہ غزل میں سے ایک،ایک شعر کی تشریح کیجیے: 10نمبر

(حصہ نظم) (i) ترے قدم پر نظر آئے محفلِ انجم — وہ بانکپن، وہ اچھوتا شباب پیدا کر

(ii) بہے زمیں پر جو تیرا لہو تو غم مت کر — اسی زمین سے مہکتے گلاب پیدا کر

(حصہ غزل) (i) دی جان ایسے ہوش سے اپنی کہ خلق کو — جینے کا میرے تادم آخر یقیں رہا

(ii) یاران گرم رو تو سب آگے نکل گئے — ان سے میں ننگ قافلہ پیچھے کہیں رہا

سوال نمبر3۔ سیاق وسباق کے حوالے سے تشریح کیجیے۔ 10نمبر

رات کے ساڑھے دس بجے ہمارا جہاز ہوائی کے دارالسلطنت ہونولولو میں اترا۔ میاں کو تار دے دیا تھا۔ اُمید تھی کے ہوائی اڈے پر ہارلے کر پہنچیں گے۔ جزیرہ ہوائی کی یہ ایک رسم دیرینہ ہے کہ ہر آنے والے کا پھولوں کے حسین گجروں سے استقبال کیا جاتا ہے، اس لیے ارمان تھا کہ کم از کم میاں تو پھول نچھاور کرنے پہنچ جائیں گے۔

سوال نمبر4۔ مندرجہ ذیل سبق کا خلاصہ تحریر کیجیے اور مصنف کا نام بھی لکھیے: 10 نمبر

دستک

سوال نمبر5: نظم نوجوان سے خطاب" کا خلاصہ تحریر کریں۔ 05نمبر

سوال نمبر6۔ " میرا پسندیدہ اخبار" **کے عنوان پر ایک مفصل مضمون لکھیں۔** 10نمبر

سوال نمبر7۔ ناراض دوست کو منانے کے لیے خط لکھیے۔ 05نمبر

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Roll#. ________ Section:________	2nd Year Urdu	Annual Test Series 2023 T8	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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حصہ نثر:	مضامین نویسی:	خطوط نویسی:	گرائمر:
سبق نمبر 9، 10 حصہ نظم: نظم نمبر 8 حصہ غزل: غزل نمبر 5	ایک یادگار اور دلچسپ سفر تعلیم نسواں سیلاب اور اس کی تباہ کاریاں ایٹمی ٹیکنالوجی۔ تعمیری اور تخریبی پہلو	اُستاد محترم کو شکر گزاری کا خط مالک مکان کے نام مکان کی مرمت کے بارے میں امدادی افعال: (معروضی نمبر 86 تا 105)	مطابقت اور حروف کا صحیح استعمال (معروضی نمبر 126 تا 140) رموزواوقاف: (معروضی نمبر 126 تا 140)

نمبر شمار	سوالات	A	B	C	D
1	اخبار "نئی دنیا" کا کو لمبس کون تھا؟	ظفر علی خان	شائع احمد عثمانی	چراغ حسن حسرت	حکیم غلام مصطفی
2	ایک مرتبہ ایک صاحب کہنے لگے کہ	زبان کے	صحافت کے	محاورے کے	زبان اور محاورے کے
3	قرطبہ کے قاضی کا نام تھا؟	قاضی یحییٰ بن منصور	یحییٰ بن ہشام	ابن منصور	منصور بن یحییٰ
4	زبیر کو کس نے پھانسی دی:	جلاد نے	اس کے باپ نے	عبداللہ نے	فوج نے
5	ماہنامہ "اوراق" بند ہو------	گئے	گئی	گیا	پڑا
6	جملے میں دو سے زیادہ اسماء کے درمیان علامت استعمال کی جاتی ہے۔	واوین	سوالیہ	سکتہ	قوسین
7	ندائیہ کی تعریف ہے۔	سوال پوچھنا	فقرے کی تکمیل	کسی کو پکارنا یا مخاطب کرنا	جواب دینا
8	مناسب علامت لگائیں۔ کیا تم اسکول جاؤ گے۔	،	؟	۔	:۔
9	رہنا:	وہ ٹھیک کام کر رہا ہے	تم کہاں رہتے ہو؟	ہمیشہ اچھی جگہ رہو	وہ یہاں نہیں رہ سکتا
10	جانا:	دفع ہو جاؤ	مجھے لاہور جانا ہے	کالج جلدی جاؤ	وہ گھر جلدی جاتا ہے

سوال نمبر2۔ حصہ نظم اور حصہ غزل میں سے ایک، ایک شعر کی تشریح کیجیے: 10نمبر

(حصہ نظم) (i) تنگ پگڈنڈی، سر کہسار بل کھاتی ہوئی — نیچے، دونوں سمت، گہرے غار منہ کھولے ہوئے

(ii) ایک بوسیدہ، خمیدہ پیڑ کا کمزور ہاتھ — سیکڑوں گرتے ہوؤں کی دستگیری کا امیں

(حصہ غزل) (i) نہ گیا کوئی عدم کو دل شاداں لے کر — یاں سے کیا کیا نہ گئے حسرت و ارماں لے کر

(ii) پھر گئی سوئے اسیران قفس باد صبا — خبر آمد ایام بہاراں لے کر

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سوال نمبر3۔ سیاق وسباق کے حوالے سے تشریح کیجیے۔ 10نمبر

ہم نے اکثر شاعروں کو دیکھا ہے کہ شعر کہنا چاہتے ہیں تو شفاالملک حکیم فقیر محمد صاحب چشتی سے رجوع کرتے ہیں اور ہفتے بھر کا مسہل لے لیتے ہیں اور پھر فی یوم ایک شعر کے حساب سے کہتے ہیں چلے جاتے ہیں، یہ نہیں کرتے تو بیوی پیٹتے ہیں یا اُن سے پٹتے ہیں۔

سوال نمبر4۔ مندرجہ ذیل سبق کا خلاصہ تحریر کیجیے اور مصنف کا نام بھی لکھیے: 10نمبر

قرطبہ کا قاضی

سوال نمبر5: نظم" ایک کوہستانی سفر کے دوران میں کا خلاصہ تحریر کریں۔ 05نمبر

سوال نمبر6۔ " سیلاب اور اس کی تباہ کاریاں" **کے عنوان پر ایک مفصل مضمون لکھیں۔** 10نمبر

سوال نمبر7۔ مالک مکان کے نام مکان کی مرمت کے بارے میں **خط لکھیے۔** 05نمبر

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Name: ____________	Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. _______ Section:_______	2nd Year Urdu	Annual Test Series 2023 T9	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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حصہ نثر:	مضامین نویسی:	خطوط نویسی:	گرائمر:
سبق نمبر 11، 12	پاکستان ایک ایٹمی قوت	اخبار کے ایڈیٹر کے نام ٹریفک حادثات کے بارے میں	مطابقت اور حروف کا صحیح استعمال
حصہ نظم: نظم نمبر 9	دہشت گردی۔۔۔اسباب اور روک تھام	اخبار کے ایڈیٹر کے نام معاشرے میں بڑھتے ہوئے جرائم کے بارے میں	(معروضی نمبر 141 تا 155)
حصہ غزل: غزل نمبر 6	کیبل کے فوائد و نقصانات	امدادی افعال:	رموز و اوقاف:
	دورِ جدید میں کمپیوٹر کی اہمیت	(معروضی نمبر 106 تا 120)	(معروضی نمبر 141 تا 155)

نمبر شمار	سوالات	A	B	C	D
1	پہلا تار اٹلی سے فرانس کب بھیجا گیا؟	28مارچ1899ء	27مارچ1899ء	28مارچ1799ء	27مارچ1799ء
2	ڈاک کے لیے مسلمانوں نے جو جداگانہ محکمہ قائم کیا اس کا نام تھا؟	دیوان البرید	دیوان العرض	تیز گام	تیز رفتار
3	مولوی نذیر احمد اپنی کس کتاب کو "توشہ آخرت" کہتے تھے؟	مراۃ العروس	ابن الوقت	ترجمۃ القرآن	تحفتہ العروس
4	"گنجینۂ گوہر" سے سبق لیا گیا ہے:	دستک	ایوب عباسی	قرطبہ کا قاضی	مولوی نذیر احمد دہلوی
5	ریوڑ گھاس چر----------	رہا ہے	رہی ہے	رہے ہیں	رہی ہیں
6	اس کے ہوش و حواس--------:	جاتا رہا	جاتی رہی	جاتے رہے	گیا
7	عزیز ساتھیو۔۔۔۔غور سے سنو:	،	!	۔	؟
8	غصے کے اظہار کے لیے کس علامت کا استعمال کیا جاتا ہے:	ختمہ	ندائیہ	فجائیہ	وقفہ
9	چکنا:	سورج ڈوب چکا ہے	ذرا دہی تو چکھو	میرا حساب چکا دو	میرے ہاتھ چکنے ہیں
10	جانا:	مجھے کالج جانا ہے	مجھے جلدی جانا ہے	وہ کالج چلا گیا	تمہیں یہاں سے جانا ہے

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سوال نمبر2۔ حصہ نظم اور حصہ غزل میں سے ایک، ایک شعر کی تشریح کیجیے: 10نمبر

(حصہ نظم) (i) راتوں کو ہے سحر کی تجلی کا انتظار — ہے ہر صدا فراق خموشی میں بے قرار

(ii) کس پہ یہاں تغیرِ نو کا فسوں نہیں — اس بزم میں نصیب کسی کو سکوں نہیں

(حصہ غزل) (i) رائے دیوانگی شوق کہ ہر دم مجھ کو — آپ جانا ادھر اور آپ ہی حیراں ہونا

(ii) حیف اس چارہ گرہ کپڑے کی قسمت، غالبؔ — جس کی قسمت میں ہو عاشق کا گریباں ہونا

سوال نمبر3۔ سیاق و سباق کے حوالے سے تشریح کیجیے۔ 10نمبر

مولوی نذیر احمد علی گڑھ کے لیے چندا گانے کے سلسلے میں بہت کار آمد آدمی تھے، اس لیے جہاں تک ممکن ہوتا سر سید انھیں اپنے دوروں میں ساتھ رکھتے اور ان سے تقریریں کراتے۔ نذیر احمد کی قوت تقریر کے بارے میں کہا جاتا ہے کہ انگلستان کا مشہور مقرر برک اُن سے زیادہ موثر تقریر نہیں کر سکتا تھا۔

سوال نمبر4۔ مندرجہ ذیل سبق کا خلاصہ تحریر کیجیے اور مصنف کا نام بھی لکھیے: 10نمبر

مواصلات کے جدید ذرائع

سوال نمبر5: نظم "تغیر" کا خلاصہ تحریر کریں۔ 05نمبر

سوال نمبر6۔ "دہشت گردی۔۔۔اسباب اور روک تھام" **کے عنوان پر ایک مفصل مضمون لکھیں۔** 10نمبر

سوال نمبر7۔ اخبار کے ایڈیٹر کے نام معاشرے میں بڑھتے ہوئے جرائم کے بارے میں **خط لکھیے۔** 05نمبر

Name: ______________		Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. ______	Section:______	2nd Year Urdu	Annual Test Series 2023 T10	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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حصہ نثر :	مضامین نویسی:	خطوط نویسی:	گرائمر:
سبق نمبر 13 ، 14 **حصہ نظم :** نظم نمبر 10 **حصہ غزل:** غزل نمبر 7	زلزلے کی تباہ کاریاں میرا نصب العین پاکستان میں توانائی کا بحران ڈینگی۔۔۔اسباب اور بچاؤ کے طریقے	اخبار کے ایڈیٹر کے نام بجلی کی بار بار بندش کے بارے میں **رموز واوقاف:** (معروضی نمبر بقیہ مکمل)	**مطابقت اور حروف کا صحیح استعمال** (معروضی نمبر بقیہ مکمل) **امدادی افعال:** (مکمل)

نمبر شمار	سوالات	A	B	C	D
1	ابن انشاء کو دگلا نما افغانی کوٹ خریدنے کی نصیحت کس نے کی؟	ڈاکٹر گلبرک	حمید اختر	آغا جعفری	اسکیموڈاکٹر
2	دریائے کابل بیچوں بیچ بہتا ہے۔	گاؤں کے	قصبے کے	پہاڑوں کے	شہر کے
3	ایوب صاحب نے رشید احمد صدیقی کو پہننے کا مشورہ دیا؟	پاجامہ	پتلون	اوور کوٹ	شیروانی
4	ایوب عباسی کا تعلق یونیورسٹی سے تھا؟	پنجاب	علی گڑھ	ذکریا	لکھنؤ
5	جملے میں کسی جذبے کے اظہار کے لیے علامت استعمال ہوتی ہے۔	فجائیہ	ندائیہ	وقفہ	سوالیہ
6	کوئی اقتباس نقل کیا جائے تو اس کے دونوں طرف علامت لگاتے ہیں۔	واوین	قوسین	سکتہ	ختمہ
7	کسی بڑے جملے کے چھوٹے چھوٹے اجزاء کو الگ کرنے کے لیے علامت لگائی جاتی ہے۔	سکتہ	وقفہ	فجائیہ	ختمہ
8	جملے میں استفہامیہ مفہوم ادا کرنے کے لیے علامت استعمال کی جاتی ہے۔	واوین	سوالیہ	رابطہ	وقفہ
9	چاہنا:	آپ کیا چاہتے ہیں	سچ بولنا چاہیے	اس نے جو چاہا کیا	مجھے انصاف چاہیے
10	لگنا:	وہ آپ کا کیا لگتا ہے؟	اُسے چوٹ لگی تو وہ رونے لگا	گھر میں آگ لگ گئی	مجھے سردی لگ رہی ہے

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سوال نمبر2۔ حصہ نظم اور حصہ غزل میں سے ایک، ایک شعر کی تشریح کیجیے: 10نمبر

(حصہ نظم) (i) اجڑا سا وہ نگر کہ ہڑپا ہے جس کا نام — عبرت کی اک چھٹانک بر آمد نہ ہو سکی

(ii) ابھی چند میزوں سے گزری ہے فائل — مقامات آہ و فغاں اور بھی ہیں

(حصہ غزل) (i) اے طائر لاہوتی! اس رزق سے موت اچھی — جس رزق سے آتی ہو پرواز میں کوتاہی

(ii) دارا و سکندر سے وہ مردِ فقیر اولیٰ — ہو جس کی فقیری میں بوئے اسد اللٰہی

سوال نمبر3۔ سیاق وسباق کے حوالے سے تشریح کیجیے۔ 10نمبر

ان کے گھروں میں طالب علموں کا وہ ہجوم کہ اندر جا کر دم گھٹنے لگتا تھا۔ ہر شخص کو کھلانا پلانا، سامان دینا، ان کی ضرورتوں کو نظر میں رکھنا اور ان کی فکر کرنا۔ اس کے بعد آفس کا کام، دوستوں کا کام، غرض اس شخص کی مشغولیتیں دیکھ کر سب تعجب کیا کرتے تھے کہ یہ شخص زندہ کیسے ہے اور اس کی حواس کیوں کر بجا ہیں۔

سوال نمبر4۔ مندرجہ ذیل سبق کا خلاصہ تحریر کیجیے اور مصنف کا نام بھی لکھیے: 10نمبر

ایک سفر نامہ جو کہیں کا بھی نہیں ہے

سوال نمبر5: نظم "قطعات" کا خلاصہ تحریر کریں۔ 05نمبر

سوال نمبر6۔ "ڈینگی۔۔۔اسباب اور بچاؤ کے طریقے" کے عنوان پر ایک مفصل مضمون لکھیں۔ 10نمبر

سوال نمبر7۔ اخبار کے ایڈیٹر کے نام بجلی کی بار بار بندش کے بارے میں کی تلقین پر خط لکھیے۔ 05نمبر

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Name: ____________		Grand Test Series [2022-23]	Time: 90 Mints	Marks: ____ / 50
Roll#. ______	Section:______	2^{nd} Year Chemistry	Syllabus: Ch#01	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Which of the following elements reacts with steam only:	Na	Mg	K	Ca
2	Most of the elements are:	Crystalloids	Metals	Metalloids	Non-Metals
3	In periodic table all the non-metals are placed under which of the blocks.	F	d	p	s
4	Transition elements in 4^{th} period is:	18	10	8	16
5	Aluminum iodide has nature:	Ionic	Covalent	Polymeric	None
6	Potassium oxide is:	Basic	Acidic	Amphoteric	Neutral
7	How many elements are present in 5^{th} period of the periodic table?	32	8	18	28
8	The basic of modern periodic law is:	Electron affinity	Atomic mass	Ionization energy	Atomic number
9	Which is the least reactive of all the alkali of all the alkali metals:	Li	Na	K	Cs
10	Which statement form an ion with charge +3:	Chromium	Copper	Lead	Zinc

Q. No. 2 Write short answers to any 14 questions. 28

(i)	What are the improvements made in the Mendeleev's periodic table?	(ix)	Why second E.A of an element is +ve?
(ii)	Why ionization energy decreases down the group and increases along a period?	(x)	Ionization energy increases along a period. Give reasons.
(iii)	Explain the variation in melting points along the short period.	(xi)	What are ionic hydrides? Give example.
(iv)	Give tow defects of Mendeleev's periodic table.	(xii)	Why 1^{st} electron affinity is negative and 2^{nd} is positive?
(v)	Why te oxidation state of noble gases is usually zero?	(xiii)	Why is the oxidation state of noble gases usually zero?
(vi)	Alkali metals give the ionic hydrides	(xiv)	Oxidation state usually remains the same in a group. Why?
(vii)	What is Lanthanide contraction?	(xv)	Justify carbon and hydrogen are both reducing agents.
(viii)	Describe 6^{th} period of modern periodic table.	(xvi)	Justify carbon and hydrogen are both reducing agents.

Q. No. 3 Attempt any THREE questions. 12

(a)	Explain periodic trends I the following physical properties: [Atomic radius (b) electron affinity]
(b)	What are halides? Give their types and properties.
(c)	Explain similarities of Hydrogen with Halogen's and dissimilarities with alkali metals
(d)	Define hydration energy. Discuss the relation of hydration energy with size and charge on the ions

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Roll#. ________	Section:________	2^{nd} Year Chemistry	Syllabus: Ch#02	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Which one of the following does not belong to alkaline earth metals:	Be	Ra	Ba	Rn
2	The oxides of beryllium are?	Acidic	basic	amphoteric	None of these
3	Which one of the following is not an alkali metal?	Francium	cesium	rubidium	Radium
4	Down's cell is used to prepare:	Sodium carbonate	Sodium bicarbonate	Sodium metal	Sodium hydroxide
5	One of the following is applied on walls as white wash:	Lime water	Milk of lime	Milk of magnesia	Lime stone
6	Which of the following elements can form super oxide:	Li	Be	K	Mg
7	The word alkali is derived from which language?	Arabic	Greek	French	German
8	The mineral $CaSO_4$, $2H_2O$ has general name:	Gypsum	Epsom salt	Dolomite	Calcite
9	Which is more basic	RbOH	NaOH	KOH	LiOH
10	Beryllium metal is as hard as:	**Fe**	Cu	Zn	Diamond

Q. No. 2 Write short answers to any 14 questions. 28

(i)	Why the aqueous solution of Na_2CO_3 is alkaline in nature?	(ix)	Prove decomposition of lithium nitrate, give different products than nitrates of other alkali metals.
(ii)	Mention two major problems that may arise in Nelson's cell.	(x)	Why calcium is essential for the normal development of plants?
(iii)	How $LiNO_3$ and $NaNO_3$ differ on application of heat?	(xi)	What is lime mortar and what change occur when it hardens during hydrolysis?
(iv)	Why lime is added to acidic soil?	(xii)	What is milk of magnesia? Give its uses.
(v)	What is plaster of Paris? Give its two applications.	(xiii)	Give reason that alkali metals are strong reducing agents?
(vi)	Why 2% gypsum is added in cement?	(xiv)	Give names and formulas for minerals of Be
(vii)	Why alkali and alkaline earth metals are the most reactive elements of the periodic table?	(xv)	Justify that BeO is amphoteric in nature.
(viii)	Why asbestos is used in a diaphragm cell?	(xvi)	Explain the reaction of alkali metal oxide with water?

Q. No. 3 Attempt any THREE questions. 12

(a) Describe eight points to discuss role of lime in industries.

(b) Discuss the role of gypsum in agriculture

(c) Explain the construction of Down's cell. Give reactions taking place at cathode and anode

(d) Explain peculiar behavior of beryllium.

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Roll#. ________	Section:________	**2nd Year Chemistry**	**Syllabus: Ch#03**	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Which metal is used in the Thermite process because of its activity:	Iron	copper	aluminum	Zinc
2	Aluminum oxide is:	Acidic oxide	Basic oxide	Amphoteric oxide	None
3	The color of cobalt metal borate is	green	Blue	Brown	Colorless
4	Tincal is a mineral of:	AI	Boron	silicon	Carbon
5	Which of the following is non metal	B	AI	Ga	In
6	Chemical garden is forded by using compound	Sodium carbonate	Sodium silicate	asbestos	Soapstone
7	AI is less dense than iron	Two times	Three times	Four times	Five times
8	Lead oxalate on heating forms:	Pb_2O	CO_2	CO	All of these
9	BF3 acts as Lewis acid because it behaves as	Free radical	Cationic specie	Electrophile	Nucleophile
10	Which of the following gas will tur lime water milky:	CI_2	NO_2	CO	CO_2

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	Why is aluminum not found as a free element?	(ix)	Explain the structure of CO_2
(ii)	Explain CO_2 is acidic in character.	(x)	What is vitreous silica? Give its two uses.
(iii)	How does orthoboric acid react with?	(xi)	Write chemical formula of Talc and Asbestos.
(iv)	Give uses of lead sub oxide	(xii)	Write down the four uses of sodium silicate.
(v)	Define metalloid. Give reaction of a metalloid of group III-A with oxygen.	(xiii)	Discuss the effect of temperature on semiconductor.
(vi)	Give the four uses of borax.	(xiv)	Reaction of Borax with H_2SO_4
(vii)	Write formulas for Mauxite and Corundum	(xv)	Discuss CO_2 is acidic in creator.
(viii)	What is chemistry of borax-bead test?	(xvi)	How Borax can be manufactured from Boric acid?

Q. No. 3 Attempt any THREE questions. **12**

(a)	What are silicones? Give two properties also.
(b)	What are silicones? Give their three uses.
(c)	What are silicones? How are they produced? Outline two uses of silicones
(d)	What are silicones? Write its uses.

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Name: ________________	Grand Test Series [*2022-23*]	Time: 90 Mints	Marks: ____ / 50
Roll#. _______ Section:_______	2^{nd} **Year Chemistry**	**Syllabus: Ch#04**	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	The brown gas formed, when metal reduces HNO_3, to	N_2O_3	N_2O_4	N_2O_5	N_2O
2	Ortho phosphoric acid has melting point:	49°C	45°C	41°C	50°C
3	When sugar is treated with conc. H_2SO_4 it becomes black due to:	Decolourization	dehydration	hydrolysis	Hydration
4	Which catalyst is used in contact process	Fe_2O_3	V_2O_5	SO_3	Ag_2O
5	Aqua regia contains HNO_3 and HCI:	1:1	1:2	1:3	3:1
6	Which form of phosphorous is more stable?	White	Red	Black	All
7	Conversion of white P4 to red P is accelerated in the presence of	Fe	Ni	Br_2	I_2
8	Yellow color of nitric acid is due to the presence of	N_2O	N_2O_4	N_2O_3	None
9	What is the number of electrons present in the valence shell of P in PCI_3	4	6	8	2
10	Nitrogen is chemically inert to all atoms at room temperature except:	Mg	Ca	AI	Li

Q. No. 2	Write short answers to any 14 questions.		28
(i)	Who does nitrogen differ from other elements of its group?	(ix)	Write names and formulas of oxyacids of nitrogen.
(ii)	What is meant by fuming nitric acid?	(x)	CO_2 is non-polar while CO is polar in nature. Explain
(iii)	How aqua-regia does dissolves gold	(xi)	Write two reactions in which sulphuric acid act as dehydrating agent.
(iv)	Give two methods for preparation of PCI_3	(xii)	How does dilute HNO_3 react with Mn and Cu?
(v)	Which metals evolve hydrogen upon reaction nitric acid? Illustrate along with chemical equation.	(xiii)	Write down the structure of N_2O and NO_2
(vi)	Describe Ring test for the confirmation of the presence of nitrate ions in solution.	(xiv)	Give molecular structure of red phosphorous. How it is prepared from white phosphorous?
(vii)	How does HNO_2 acts as a reducing agent?	(xv)	Give four differences of oxygen with Sulphur?
(viii)	Write any four uses of nitric acid?	(xvi)	How does nitrogen differ from other elements of its group?

Q. No. 3	Attempt any THREE questions.	12
(a)	What happen when dil. HNO_3 and conc. HNO_3 react with following?	
(b)	Describe eight points of similarities of oxygen with Sulphur.	
(c)	How is nitric acid prepared industrially? Give all equations involved.	
(d)	Give four reasons of H_2SO_4 as an acid.	

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Roll#. ________	Section:________	**2^{nd} Year Chemistry**	**Syllabus: Ch#05**	

01	ⒶⒷⒸⒹ	02	ⒶⒷⒸⒹ	03	ⒶⒷⒸⒹ	04	ⒶⒷⒸⒹ	05	ⒶⒷⒸⒹ
06	ⒶⒷⒸⒹ	07	ⒶⒷⒸⒹ	08	ⒶⒷⒸⒹ	09	ⒶⒷⒸⒹ	10	ⒶⒷⒸⒹ

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Sr.#	Questions	A	B	C	D
1	Chlorine heptaoxide reacts with water to form:	Hypo-chlorous acid	Chloric acid	Per-chloric acid	Chlorine and oxygen
2	Which is the strongest acid:	HCIO	$HCIO_2$	$HCIO_3$	$HCIO_4$
3	Which halogen occurs naturally in a positive oxidation state?	Fluorine	Chlorine	Bromine	Iodine
4	Silver bromide is used in	F_2	CI_2	Br_2	acid
5	Which one of the following noble gas is used in bacterial lamps?	Ne	Ar	Kr	Xe
6	Alpha decay of the radium gives	neon	argon	xenon	radon
7	CI_2O_7 reacts with H_2O of form	$HC\ell O$	$HC\ell O_2$	$HC\ell O_4$	$C\ell_4$ and O_2
8	All the halogens are colored. The intensity of the color depends on	Valence electron	Atomic number	Atomic mass	None of these
9	Which of the following has greater volatility:	CH_3F	CH_3CI	CH_3Br	CH_3I
10	Which is second most abundant element in universe	H	He	O	C

Q. No. 2 Write short answers to any 14 questions. 28

(i)	How the halogen acids are ionized in water?	(ix)	What are Freon's and Teflon?
(ii)	Why HF is weaker acid than HCI?	(x)	What is halothane? Give its one use.
(iii)	Why iodine has metallic luster?	(xi)	Write down two dissimilarities between oxygen and Sulphur.
(iv)	Which halogen is used in water treatment to kill bacteria?	(xii)	Give important uses of Helium.
(v)	What is structural formula of Teflon? Mention its two uses.	(xiii)	What is available chlorine
(vi)	The elements of VIII-A group are called noble gases. Comment.	(xiv)	Why we cannot prepare HBr ad HI by the reaction of H_2SO_4 with Bromides and iodides?
(vii)	Write any four applications of noble gases	(xv)	Give four differences of Fluorine from its group members.
(viii)	Write the disproportionation reaction of chlorine.	(xvi)	What are Freon's and Teflon?

Q. No. 3 Attempt any THREE questions. 12

(a)	Discuss relative reactivates of halogens as oxidizing agent.
(b)	What is bleaching powder? How is it prepared commercially?
(c)	Write chemical reactions of fluorides of Xenon.
(d)	Give eight uses of noble gases

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Roll#. _______ Section:_______	2nd Year Chemistry	Syllabus: Ch#06	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Which of the following is a non-typical transition element?	Cr	Mn	Zn	Fe
2	The total number of transition elements is	10	14	40	58
3	F-block elements are also called?	Non-typical transition elements	Outer transition elements	Normal transition elements	None is true
4	Mild steel contains carbon:	0.25to2.5%	0.12-0.20%	3.0 to 4.5%	2.0 to 4.5%
5	Which is transition element	Ba	Na	Ra	Co
6	Maximum temperature on the open hearth process is:	900°C	1200°C	1400°C	1600°C
7	What is the configuration of Cr?	$3d^4\ 4s^2$	$3d^5\ 4s^1$	$3d^6\ 4s^1$	$2d^1\ 4s^2$
8	Which of the following cation has maximum unpaired electrons?	Mi^{+2}	Co^{+2}	Mn^{+2}	Fe^{+2}
9	The trace metal present in insulin is	Mn	Co	Fe	Zn
10	Which compound is prepared by the Stadeler's process?	$KMnO_4$	$K_2Cr_2O_7$	K_2MnO_4	K_2CrO_4

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	How $KMnO_4$ can be prepared by electrolytic method?	**(ix)**	What are chelates? Give an example.
(ii)	How chromate ions are converted into dichromate ions?	**(x)**	Give the reason for the development of the colors in the compounds of transition elements.
(iii)	How many unpaired electrons have Cr(24), ag (47)?	**(xi)**	Names and formula of two ores of iron.
(iv)	Give formulas of magnetite and hematite.	**(xii)**	Give any four properties of transition element
(v)	Give reason for the development of colors in the transition complexes.	**(xiii)**	What is co-ordination sphere? Give example.
(vi)	What is ligand? Write down its types	**(xiv)**	What are non-typical transition elements and why are they called so.
(vii)	How entrapped bubble of gases are removed from steel?	**(xv)**	Why Transition elements compounds are colored?
(viii)	What is tin plating and what happens when it is damaged?	**(xvi)**	Under what conditions does aluminum corrode?

Q. No. 3 Attempt any THREE questions. **12**

(a) 1 Explain the following:

(a) Ligands (b) coordination number (c) chelates (d) coordination sphere

(b) What is steel? Discuss its different types on the basis of carbon content.

(c) What is corrosion? Explain the electrochemical theory of corrosion.

(d) $KmnO_4$ acts as an oxidizing agent. Give four reactions is support of your answer.

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Roll#. ________ Section: ________	2nd Year Chemistry	Syllabus: Ch#07	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	The state of hybridization of carbon atom in methane is	Sp^3	Sp^2	sp	Dsp^2
2	Which set of hybrid orbitals has planar triangular shape	Sp^3	Sp^2	sp	Dsp^2
3	Select form following the one which is alcohol:	CH_3-CH_2-OH	CH_3-O-CH_3	CH_3-COOH	CH_3-CH_2-Br
4	Pentane shows how many chain isomers	2	4	3	5
5	Vital force theory was rejected by	G.N. Lewis	Fredrick Wohler	Greek Philosophers	none
6	The process used to improve quality of gasoline is called	Thermal cracking	reforming	Steam cracking	combustion
7	Hemolytic fission of covalent bond results in the formation of	Free radicals	carbanions	carbonations	Both a & b
8	Which type of coal has least percentage of carbon?	Lignite	Bituminous coal	Peat	anthracite
9	Concept of octane number was introduced by	Kekule	Edgar	Wohler	Dalton
10	The reaction $C_8H_{18} \rightarrow C_3H_6$+fragments is	Catalytic oxidation	isomerization	synthesis	Cracking

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	Write the structural formulas of the two possible isomers of C_4H_{10}.	(ix)	Name the organic compound first of all prepared in the laboratory, and how?
(ii)	Why there is no free rotation around a double and a free rotation around a single bond? Discuss cis-trans isomerism	(x)	Give idea about knocking in the internal combustion engine.
(iii)	Define hemicyclic compounds. Give example.	(xi)	Why there is a free rotation around a single bond, bit no free rotation around a double bond?
(iv)	Define tautomerism and give one example	(xii)	Name different fractions obtained in petroleum refining
(v)	How does cracking and reforming differ from each other	(xiii)	Name different fractions obtained in petroleum refining
(vi)	Define reforming of petroleum.	(xiv)	Give the names of four compounds which are hemicyclic
(vii)	Differentiate between hemicyclic and heterocyclic compo und.	(xv)	What is natural gas? Write its uses.
(viii)	Define functional group isomerism and give example	(xvi)	What are organic compounds?

Q. No. 3 Attempt any THREE questions. **12**

(a)	Define hybridization. Discuss the structure of etyhne on its basis.
(b)	Define isomerism. Explain the term metamerism by giving two examples.
(c)	Define functional group. Name typical functional groups containing oxygen
(d)	What is meant by reforming of petroleum? Explain knocking and octane number in that regards.

Name: ____________	Grand Test Series [*2022-23*]	Time: 90 Mints	Marks: ____ / 50
Roll#. ______ Section: ______	2nd Year Chemistry	Syllabus: Ch#08	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Formula of chloroform is	CH_3CI	CCI_4	CH_2CI_2	$CHCI_3$
2	Synthetic rubber is made by polymerization of	Chloroprene	Chloroform	acetylene	Divinely acetylene
3	Which one is not a property or uses of mustard gas	Used in 1st world war	Powerful vesicant	High boiling liquid	High boiling gas
4	Which reacts readily with Br_2	C_2H_6	C_3H_8	C_4H_8	C_4H_{10}
5	Ethyl bromide reacts with Zn and HCI to form	Ethane	Ethyne	Propene	none
6	Which of the following is not alicyclic	Cyclohexene	Cyclobutane	Toluene	Cyclopentene
7	Which type of reactions are given by alkanes	Polymerization	Elimination	addition	Substitution
8	2-methyl 1, 3 butadiene is called	Styrene	Cymene	chloroprene	isoprene
9	chloroprene is used for making	rubber	Petrol	propane	Liquid fuel
10	The isomerism shown by alkanes is	Skeletal	Position	Geometric	Metamerism

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	Alkanes are less reactive tan alkenes. comment	(ix)	Describe polymerization of methane.
(ii)	Give four uses of methance.	(x)	What is Landler's catalyst? Where it is used?
(iii)	What is Raney Nickel? How is it prepared?	(xi)	What is clemmensen reduction? Also give its reaction
(iv)	Define hydrogenation. Give its two applications.	(xii)	Write the mechanism for the electrolysis of salt of dicarboxylic acid.
(v)	State Markovnikov's rule and give its example.	(xiii)	Starting from ethyne. How will you prepare octal dehyde
(vi)	How alkane is prepared by Wolf-Kushner reduction	(xiv)	What is ozonolysis? Give one example.
(vii)	How mustard gas is prepared	(xv)	What is combustion? What is its importance
(viii)	Why alkynes are less reactive than alkenes towards electrophilic reagents.	(xvi)	Explain the reactivity of a π-bond.

Q. No. 3 Attempt any THREE questions. **12**

(a) 1 Convert the following:
(a) Prpyne into acetone (b)Ethane into oxalic acid

(b) Discuss acidic nature of alkynes with at least two examples.

(c) Explain free radical mechanism for the reaction of chlorine with methane in the presence of sunlight.

(d) 2 How does ethyne react wity:
(a) Butanone and 3-pentanone (b)Acetaldehyde and benzaldehyde

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Roll#. _______	Section:_______	2nd Year Chemistry	Syllabus: Ch#09	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	The benzene molecule contains	Three double bonds	Two double bonds	One double bond	Delocalized π-electron charge
2	Which compound is most reactive one	Benzene	Ethene	Ethane	Ethyne
3	The conversation of n-hexane into benzene by heating in the presence of Pt is called	isomerization	aromatization	dealkylation	rearrangement
4	How many resonance structures of benzene are known	3	4	5	6
5	Which of the following is ortho and para directing group	-I	-CHO	$-NR_3$	-COOH
6	The C-C bond length in benzene is	1.32A°	1.397A°	1.20A°	1.54A°
7	Which are not a meta directing group	-COOH	-CHO	-COR	$-NH_2$
8	Main source of aromatic compound is	petroleum	Coal-tar	Living organism	Dead marine animals
9	Chlorine react with benzene in the presence of sunlight to give	chlorobenzene	Benzoyl chloride	Ortho-para dichlorobenzene	Hex chlorobenzene
10	Effect of substituent on benzene ring is due to	Resonance	Inductive effect	Both a & b	Unpredictable

Q. No. 2 Write short answers to any 14 questions. 28

(i)	What happens when Benzene is heated with conc. H_2SO_4 at 80°C	(ix)	Write down the mechanism of nitration of benzene
(ii)	What happens when a mixture of benzene vapours and air are passed over heated vanadium pentaoxide.	(x)	Convert Heptane into toluene
(iii)	Give general mechanism of the electrophilic aromatic substitution reactions.	(xi)	What is meant by Meta directing group?
(iv)	How KEXANE AND Heptane can give Benzene and Toluene respectively?	(xii)	Write names and draw structure of three possible isomers of xylene?
(v)	Draw structural formulas of m-nitrophenol and O-Ethyltoluene.	(xiii)	How Benzene is converted into oxalic acid.
(vi)	What are fused rings aromatic compounds? Give example	(xiv)	Write down mechanism for halogenation of benzene
(vii)	What does happen to benzene during Friedel Craft reactions? Give mechanism of one reaction	(xv)	What is Wurts-Fitting reaction? Give an example.
(viii)	Give reaction of benzene with ozone	(xvi)	Give tow reactions which shows that benzene is unsaturated hydrocarbons?

Q. No. 3 Attempt any THREE questions. 12

(a) What are Friedel-Crafts reactions? Explain mechanisms of alkylation and acylation of benzene.

(b) What is meant by orientation? Why certain substituents are ortho and para directive and others ae meta directive giving one example of each?

(c) What are aromatic hydrocarbons? How are they classified?

(d) Detail out two reactions in which benzene behave as saturated hydrocarbon and two reactions if behave as unsaturated

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Roll#. ______ Section:______	2nd Year Chemistry	Syllabus: Ch#10	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Grignard reagent is reactive due to:	The presence of halogen atom	The presence of Mg atom	The polarity of C----Mg bond	none
2	Elimination in biomolecules reactions involves	1st order kinetics	2nd order kinetics	3rd order kinetics	Zero order kinetics
3	which one is the best leaving group	I^{-1}	Br^{-1}	CI^{-1}	F^{-1}
4	The reactivity of halogen atom is maximum	Propyl-chloride	Propyl-bromide	Isopropyl chloride	Isopropy-bromide
5	Alkyl halides are prepared by reacting alcohols with:	HX	$SOCI_2$	PCI_3	ALL
6	Which compound forms alkanes when alkyl halides react with:	CH_3F	CH_3CI	CH_3Br	CH_3I
7	Carbocation is a/an	electrophile	nucleophile	Free radical	Group of atoms
8	Alkanes are formed when Grignard's reagent react with	H_2O	R-OH	All of three	NH_3
9	Best reagent for preparing a chloro-alkane from alcohol is:	$SOCI_2$	$ZnCI_2/HCI$	PCI_3	CI_2/CCI_4
10	Which one of the following is not a nucleophile:	H_2O	H_2S	BF_3	NH_3

Q. No. 2 Write short answers to any 14 questions. — 28

(i)	Define alkyl halide. Which is the best method of preparing alkyl halide?	(ix)	Give IUPAC names to the following compounds.
(ii)	What are elimination reactions? Give example of E1 reaction?	(x)	Why Grignard reagent are reactive class of compound?
(iii)	What is the nature of C-Mg bond in R-Mg-X?	(xi)	Give structures of iso butyl chloride and iso-propyl chloride.
(iv)	Define secondary alkyl halides. Give example	(xii)	Why R-I is more reactive than R-F?
(v)	Convert methane into propionic acid	(xiii)	Give differences between E1 and E2 reaction?
(vi)	What is the reaction of ethyl magnesium bromide with CO_2	(xiv)	What is a nucleophile? Give some examples
(vii)	Convert ethyl bromide into Ethane and n-butane	(xv)	Why Grignard reagents are highly reactive in nature?
(viii)	Give reaction of Grignard's reagent with CO_2 followed by hydrolysis in acidic medium.	(xvi)	How primary alcohol can be prepared by Grignard reagent?

Q. No. 3 Attempt any THREE questions. — 12

(a) What are S_n reactions? Differentiate between S_NI and S_N2 reactions.

(b) What are Grignard's reagents? How there with carbon compounds?

(c) Write reactions of Grignard reagent with CO_2 and HCHO.

(d) Discuss briefly the two possible mechanisms of β-elimination reactions.

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Roll#. ______ Section: ______	2nd Year Chemistry	Syllabus: Ch#11	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Which compound shows hydrogen bonding	C_2H_6	C_2H_5CI	C_2H_5OH	None of them
2	Which compound will have the maximum repulsion with H_2O	C6H6	C_2H_5CI	Ch_3- O-CH_3	none
3	Which enzyme is not involved in fermentation of starch?	Diastase	zymase	urease	invertase
4	Alcohol obtained by fermentation is	10%	12%	20%	95%
5	Which of the following is weakest acid?	Phenol	Ethyl alcohol	Benzoic acid	water
6	Which of the following will have the highest boiling point	Methanol	ethanol	propanol	2-hexanone
7	According to lewis concept ethers behaves as	Acid	base	Acid as well as base	none
8	95% ethanol is called	Absolute alcohol	Rectified spirit	Methylated spirit	Wood spirit
9	which one is dihydric alcohol	Ethanol	cyclohexane	Glycerol	Glycol
10	The hydrolysis of sugar is called	condensation	polymerization	inversion	Reduction

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	What are alcohols? How are they are they classified? How will you distinguish between primary, secondary and tertiary alcohols?	(ix)	Why phenol s acidic in nature?
(ii)	Give reasons for the why absolute alcohol cannot be prepared by fermentation process.	(x)	How ethanol is denatured?
(iii)	How phenol is prepared by Sow's method?	(xi)	Phenol behaves as acid. Explain.
(iv)	Compare reactivity of conc. H_2SO_4 with ethyl alcohol and phenol.	(xii)	Give the reaction of Phenol with zinc and Benzene with SO3
(v)	Explain the absolute alcohol and Methylated spirit.	(xiii)	Ethyl alcohol is a liquid while methyl chloride is a gas. Explain
(vi)	Give any four uses of methyl alcohol.	(xiv)	Draw the structures of Lactic acid and tartaric acid.
(vii)	What do you mean by denaturing of alcohols?	(xv)	How ether is prepared by Williamson's method
(viii)	How molasses is converted into Ethyl alcohol?	(xvi)	Discuss the solubility of alcohols in water?

Q. No. 3 Attempt any THREE questions. **12**

(a)	Describe any four chemical reaction of carbolic acid.
(b)	Explain oxidation and Dehydration by using ethyl alcohol.
(c)	Describe industrial preparation of ethanol. How will you distinguish between athanol and methanol?
(d)	Give two reactions in each case in which C-O and O-H bond of alcohol is broken.

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Roll#. ________ Section:________	2^{nd} Year Chemistry	Syllabus: Ch#12	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	The carbon atom of a carbonyl group is	Sp hybridized	Sp^2 hybridized	Sp^3 hybridized	None of these
2	Acetone reacts with HCN to form a cyanohydrin. It is an example of	Electrophilic addition	Electrophilic substitution	Nucleophilic addition	Nucleophilic substitution
3	Cannizzaro's reaction is not given by	Formaldehyde	acetaldehyde	benzaldehyde	Trimethyi acetaldehyde
4	Silver mirror is given by	Aldehydes	ketones	ethers	Acids
5	Aldehydes on reduction from	Primary alcohols	Secondary alcohols	Tertiary alcohols	ketone
6	Dry distillation of calcium acetate gives	Acetaldehyde	acetone	formaldehyde	Acetic anhydride
7	Which is a mixed ketone	Acctone	benzophenone	Diethyl ketone	Acetophenone
8	Which teat is called silver mirror test?	Tollen's test	Fehlings test	Benediot's test	Sodium nitro prusside test
9	Ketones are prepared by oxidation of	P^o alcohol	S^o alcohol	T^o alcohol	None of these
10	Which of the following aldehydes is used to prepare urotropine medicine	Acetaldehyde	formaldehyde	acetone	Ethyl alcohol

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	How would you distinguish between: Methanal and ethanol Ethanol and propanone Ethanol and propanal Acetone and ethyl alcohol	(ix)	Using ethane as starting material how would you get acetaldehyde, acetone and ethyl alcohol?
(ii)	Give two tests for distinguish between an aldehyde and a ketone.	(x)	Convert calcium acetate to acetone.
(iii)	Explain oxidation of aldehyde.	(xi)	What is sodium nitroprusside test?
(iv)	What is Tollen's test? Illustrate your answer with chemical equation	(xii)	How formalin is prepared on the commercial scale from methyl alcohol?
(v)	How formalin is prepared on the commercial scale from methyl alcohol?	(xiii)	What is Aldol condensation reaction?
(vi)	How would you convert Acetone into t-Butyl alcohol and Propanal into 1-propanol	(xiv)	What are carbonyl compounds? Discuss its types.
(vii)	How the reduction process of aldehydes and ketones give alcohols?	(xv)	How acetaldehyde is converted into lactic acid?
(viii)	What is silver mirror test? What is its importance?	(xvi)	Explain laboratory preparation of acetaldehyde.

Q. No. 3 Attempt any THREE questions. **12**

(a) Discuss the reaction of ethanol and propanone with hydroxylamine and phenyl hydrazine

(b) What are aldols? Explain aldol condensation reaction mechanism for condensation of ethanol.

(c) 1 How does acetaldehyde react with following reagents?

(a) C_2H5MgI (b) HCN (c)$NaHSO_3$ (d) $I_2/NaOH$

(d) 2 Prepare the following compounds from carboxyl compounds:

Lactic acid, Paraldehyde, Ethanol oxime, Croton aldehyde

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Roll#. ______ Section:______	2^{nd} Year Chemistry	Syllabus: Ch#13	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Which acid is used in the manufacture of synthetic fiber	Formic acid	Oxalic acid	Carbonic acid	Acetic acid
2	Which reagent is used to reduce a carboxylic group to an alcohol	H_2/Ni	H_2/Pt	$NaBH_4$	$LiAlH_4$
3	Which of the following is not a fatty acid?	Propanoic acid	Acetic aid	Phthalic acid	Butanoic acid
4	The molecular mass of protein is	Less than 10.000	Greater than 10,000	Equal to 10,000	Equal to 9000
5	Acetic acid is manufactured by	Distillation	fermentation	ozonlysis	esterification
6	Which of the following is neutral amino acid	Glycine	histidine	Lysine d	Aspartic acid
7	Amino acids are prepared by	Williamson's	Strecker's synthesis	Wurtz's synthesis	Perkin's reaction
8	By convention a peptide having molecular mass upto 10,000 is called	Peptide	Polypeptide	protein	Dipeptide
9	Ninhydrin reacts with amino acid to form product which has color	Blue	violet	Bullish violet	red
10	Easter amyl acetate has the flavor of	Raspberry	apricot	orange	Banana

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	What is vinegar? Describe how is vinegar prepared from ethanol?	(ix)	How would you prepare acetic acid from ethanol?
(ii)	How would you convert acetic acid into fatty acids and ethanol	(x)	Carboxylic acid exist as cyclic dimers. Explain.
(iii)	How carboxylic acids are reduced to alkanes?	(xi)	Write down the structural formula of Zwitter ion.
(iv)	Differentiate between acidic and basic amino acids	(xii)	Explain acidic and basic behavior of amino acid.
(v)	What is a peptide bond? Write down the formula of a dipeptide.	(xiii)	Explain the acidic and basic character of amino acids.
(vi)	What is peptide bond? Write down formula of a dipeptide?	(xiv)	What is the difference between the protein and polypetide?
(vii)	Write down structural formula of Phthalic acid and Malonic acid.	(xv)	Write the mechanism for the reaction of Grignard reagent with CO_2
(viii)	What are zwitter ions? How these react with acids and bases	(xvi)	Why the molecular mass of carboxylic acids determined in non-polar solvents appears double?

Q. No. 3 Attempt any THREE questions. **12**

(a)	1 Complete the following reactions of acetic acid with: (a)$SOCl_2$ (b) HI/P (c) Na_2CO_3
(b)	What is glacial acetic acid? Write down any three methods to prepare acetic acid
(c)	What do you understand by essential and non-essential amino acids? Write down one typical test of amino acids
(d)	Write down the mechanism of conversion of acetic acid to Acetamide and acetyl chloride

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Name: ________________________	Grand Test Series [2022-23]	Time: 90 Mints	Marks: ____ / 50
Roll#. ________ Section:________	2nd Year Chemistry	Syllabus: Ch#14	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Which of these polymers is an addition polymer?	Nylon -6, 6	polystyrene	terylene	Epoxy resin
2	The fiber which is made from acrylonitrile as monomer	PVC	Rayon fiber	Acrylic fiber	Polyester fiber
3	Which of the following elements is not present in all proteins	Carbon	Hydrogen	nitrogen	Sulphur
4	Which one of the following statements about glucose and sucrose is incorrect	Both are soluble in water	Both are naturally occurring	Both are carbohydrates	Both are disaccharides
5	Which of the following is an addition polymer	Nylon 6	polystyrene	terylene	Epoxy resin
6	Which one is a disaccharide	Glucose	Sucrose	fructose	cellulose
7	Which of the following is an example of associated lipid	stearin	lipoprotein	Vitamin D	Glycerol phospholipid
8	Which one of the following plastic is a thermos setting plastic	PVC	polystyrene	polyethylene	Bakelite
9	Which one of the following polymer is called a polyamide	rayon	orlon	Nylon	Terylene
10	Amino acids in protein are linked together by	Ester linkage	Peptide linkage	Ether linkage	Glyosidic linkage

Q. No. 2 Write short answers to any 15 questions. **30**

(i)	Explain the terms of Addition polymer, Condensation polymer, Thermoplastic and thermosetting plastic.	(ix)	Define Epoxy Resins. Give their importance.
(ii)	What are carbohydrates and how are they classified?	(x)	What are lipids? Give two physical properties
(iii)	Point out one difference between the compound in each of the following pairs: Glucose and fructose, sucrose and maltose, Cellulose and starcxh	(xi)	Justify by writing the structural formulas that amylose is condensation polymer of α-D-glucose but cellulose is polymer of β-D-glucose.
(iv)	Write any two differences between DNA and RNA	(xii)	What is meaning of hardening of oils?
(v)	Define enzyme. Name their two properties.	(xiii)	What are steroids?
(vi)	What is the chemical nature of enzymes? Discuss the classification of enzymes	(xiv)	What is the degree of polymerization
(vii)	What is saponification number?	(xv)	What are carbohydrates and how they are classified
(viii)	Define polymerization. Explain the term degree of polymerization	(xvi)	What is meaning of hardening of oils?

Q. No. 3 Attempt ALL questions. **10**

(a) Discuss three chemical properties of lipids with the help of reaction.

(b) Discuss hydrolysis, saponification and hardening of an oil.

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Roll#. ________	Section:________	2nd Year Chemistry	Syllabus: Ch#15	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Which woody raw material is used for the manufacture of paper pulp?	Cotton	bagasse	poplar	Rice straw
2	Micro nutrients are required in quantity ranging from	4-40g	6-200g	6-200kg	4-40kg
3	The word paper is derived from the name of which reedy plant	Rose	Sun flower	papyrus	Water hyacinth
4	How many zones through which the charge passes in a rotary kiln	4	3	2	5
5	Ammonium nitrate fertilizer is not used for which crop	Cotton	wheat	Sugar cane	Paddy rice
6	Percentage of nitrogen in urea is	76%	56%	46%	86%
7	Which component, if present in paper cause brittleness	Chlorine	cellulose	Sodium hydroxide	lignin
8	Which of the following compounds is present in highest percentage in cement	Lime	Clay	alumina	All are present equally
9	Which of the following is woody material	Bamboo	poplar	bagasse	Wheat straw
10	Which of the following fertilizer is widely used in Pakistan	Urea	DAP	Potash	none

Q. No. 2 **Write short answers to any 14 questions.** **28**

(i)	What are essential nutrient elements and why these are needed for plant growth	(ix)	How urea is prepared from ammonia?
(ii)	What are the common bleaching agents used in paper industry in Pakistan? Briefly describe the bleaching process.	(x)	Draw paper making machine.
(iii)	Enlist steps involved in the manufacturing of urea.	(xi)	Manipulate the reactions taking place between 1-7 days during the setting of cement.
(iv)	What are phosphate fertilizers? How are they prepared? Mention the role of phosphorus in the growth of plants?	(xii)	Why nitrogen is necessary for plants, give names of two nitrogen fertilizers.
(v)	Why wet cleaning is done in paper manufacture?	(xiii)	Why ammonium nitrate is not used for paddy rice?
(vi)	Distinguish between fertilizer and non-fertilizer compounds	(xiv)	What are the common bleaching agents used in paper industry in Pakistan.
(vii)	Write various types of raw material used in the preparation of cement.	(xv)	What reaction takes place in the decomposition zone during manufacturing cement
(viii)	How lignin is removed form paper?	(xvi)	How ammonium nitrate is prepared? Describe the process

Q. No. 3 **Attempt All questions.** **12**

(a)	Write essential qualities of good fertilizer
(b)	Nitrogenous fertilizer is an important class of fertilizers for crops. Discuss.
(c)	Define hydration energy. Give example. Example its trend in the periodic table.

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Name: ______________________	Grand Test Series [*2022-23*]	Time: 90 Mints	Marks: ____ / 50
Roll#. _______ Section:_______	2^{nd} **Year Chemistry**	**Syllabus: Ch#16**	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	The pH range of the acid rain is	7-6.5	6.5-6	6-5.6	Less than 5
2	A single chloride free radical can destroy how many ozone molecules	100	100000	10000	10
3	Ecosystem is a smaller unit of	lithosphere	hydrosphere	atmosphere	biosphere
4	In purification of potable water the coagulant used is	Nickel sulphate	Copper sulphate	Barium sulphate	Alum
5	Newspaper can be reacycled again and again by how many times	2	3	4	5
6	Which are carcinogenic class of compounds	Dioxins	Lower alkanes	Fatty acids	proteins
7	In which of the following layer of atmosphere, there is more thickness of ozone	troposphere	stratosphere	mesosphere	Thermosphere
8	Which method is used to remove permanent hardness of water	aeration	Coagulation	Ion exchange	chlorination
9	The temperature in the non-rotating chamber in the incineration of industrial and hazardous waste process has a range	900-1000°C	250 to 500°C	950 to 1300°C	500 to 900°C
10	To avoid the formation of toxic compounds with chlorine which substance is used for disinfecting water	$KMnO_4$	O3	alums	chloramines

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	How is oil spillage affecting the marine life?	(ix)	What is bio-chemical demand?
(ii)	How acid rain and temporary acid rain are produced?	(x)	How oil spillage effect life of marine.
(iii)	Explain the term BOD.	(xi)	Write the names of component of environment.
(iv)	What are the secondary pollutants?	(xii)	What is chemical oxygen demand? How it is measured
(v)	What is chemical oxygen demand?	(xiii)	What is role of chlorofluorocarbons in destroying ozone?
(vi)	Explain purification of water by use of coagulating agent.	(xiv)	Differentiate between primary and secondary pollutants?
(vii)	Describe natural sources of methane in atmosphere?	(xv)	How quality of raw water is improved by aeration.
(viii)	What is deposition? How does it affect the building materials?	(xvi)	Write down the chemical reactions of chloro-fluoro-carbons responsible for depletion of ozone layer.

Q. No. 3 Attempt any THREE questions. **12**

(a)	Discuss ozone as blessing. How is it destroyed by CHCs?
(b)	What is smog? Give conditions for the formation of a smog?
(c)	Write methods for purification of water. Explain the process of disinfection of water by chlorine.
(d)	What are pesticides? Explain how pesticides are dangerous to human beings.

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Roll#. ________ Section:_______	**2^{nd} Year PHYSICS**	**Syllabus: Ch#12**	

01	Ⓐ Ⓑ Ⓒ Ⓓ	**02**	Ⓐ Ⓑ Ⓒ Ⓓ	**03**	Ⓐ Ⓑ Ⓒ Ⓓ	**04**	Ⓐ Ⓑ Ⓒ Ⓓ	**05**	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	**07**	Ⓐ Ⓑ Ⓒ Ⓓ	**08**	Ⓐ Ⓑ Ⓒ Ⓓ	**09**	Ⓐ Ⓑ Ⓒ Ⓓ	**10**	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Coulomb force …………… when glass is replaced with air as the medium between two point charges	Decreases	Increases	Remain constant	Both a and b
2	What is the value of permittivity of free space	8.85×10^{-12}	8.85×10^{-11}	9×10^{9}	Zero
3	Electric flux will be maximum when	A,E perpendicular	A,E parallel	Antiparallel	a and c
4	Flux through a hollow charged sphere	Is maximum	Zero	minimum	Negative
5	One joule is equal to	1.6×10^{-19} eV	$1/1.6\times10^{-19}$eV	0.05 eV	Both a & b
6	A capacitor store energy if battery having energy CV^2	$2CV^2$	$1/2CV^2$	$1/3CV^2$	a and b
7	Capacitance of a capacitor is equal	Q/V	V/Q	C/Q	Both a & c
8	If medium is placed between the plates the capacitance of capacitor	Increases	Decreases	Zero	Remain constant
9	Will the capacitance of capacitor increase	Increasing the potential	Decreasing the potential	Both a & b	None
10	Capacitance of a capacitor change by	Area	Separation	Medium	All

Q. No. 2 Write short answers to any 14 questions. — 28

(i)	What is electron volt? Write value of one electron volt.	**(ix)**	The potential is constant throughout given region of space. Is the electrical field zero or non-zero in this region? Explain.
(ii)	What is potential gradient of electric field?	**(x)**	Is E necessarily zero inside a charged rubber balloon if balloon is spherical? Assume that charge is distributed uniformly over the surface.
(iii)	What is meant by electric field & electric field intensity?	**(xi)**	If a point charge q of mass m is released in a uniform electric field with field pointing in same direction. Will it make rectilinear motion? Explain.
(iv)	Write the properties of electric field lines.	**(xii)**	Define dipole. How dielectric is polarized?
(v)	What is difference between electric & gravitational forces?	**(xiii)**	Prove that RC=t
(vi)	Show that $1\frac{V}{m}=1\frac{N}{C}$	**(xiv)**	Does electron tend to go to region of high potential or of low potential?
(vii)	Define electric potential & write its unit.	**(xv)**	Electric field lines never cross. Why?
(viii)	How can we find the **E** inside a hollow charged sphere?		

Q. No. 3 Attempt any THREE questions. — 12

(a) Explain the coulomb law of electrostatics. Also write the vector form of forces.

(b) Define Gauss's law. And find the electric field intensity due to infinite sheet of charge.

(c) A point charge q= -8.0×10^{-8}C is placed at the origin. Calculate electric field at point 2.0m from the origin on the z-axis.

(d) A capacitor has capacitance of 2.5×10^{-8} F. In charging process electrons are removed from one plate and placed on other one. When the potential difference between the plates is 450V, how many electrons have been transferred? ($e= 1.60\times10^{-19}$C).

Name: ______________	Grand Test Series [*2022-23*]	Time: 90 Mints	Marks: ____ / 50
Roll#. ______ Section: ______	2nd Year PHYSICS	Syllabus: Ch#13	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	In a carbon resistor, a gold band shows a tolerance of	5%	20%	10%	50%
2	Siemem is the unit of:	conductivity	resistivity	conductance	capacitance
3	The resistivity of a conductor depends upon:	nature	temperature	dimension	Both a & b
4	The unit of specific resistance may be:	Ohm-cm	ohm	mho	siemen
5	The number of terminals of a rheostat is/are:	1	2	3	4
6	Maximum power out is attain when	r>R	R>r	R=r	None
7	The power dissipation in a resistor of 10Ω carrying current 2A is:	40W	200W	20W	5W
8	Which of the following represents the unit of electric power?	V/m	C/s	J/s	V/A
9	A 100W,220V bulb is operated on a 110V line. The power consumed is:	25W	50W	75W	90W
10	Current is quantity	Vector	Scalar	Both	None

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	Define electromotive force. Write its unit and formula.	(ix)	What is point rule? State it.
(ii)	Define resistivity with formula and unit.	(x)	What is loop rule? State it.
(iii)	What is meant by the magnetic effect of current?	(xi)	In what condition the output power will be maximum?
(iv)	Define drift velocity & write its unit.	(xii)	Do bends in a wire affect its electrical resistance? Explain.
(v)	Define electric current & writs its unit.	(xiii)	Why does the resistance of a conductor rise with temperature?
(vi)	Define thermistors also describe its minimum one application.	(xiv)	Is the filament resistance lower or higher in a 500W, 220V light bulb than in a 100W, 220V bulb?
(vii)	How power is dissipated in resistors.	(xv)	What is tolerance? Write the tolerance for gold and silver?
(viii)	What do you know about the heating effect of current?		

Q. No. 3 Attempt any THREE questions. **12**

(a) Define & explain the ohm's law. Also write its mathematical form.

(b) 1.0×10^{7} electrons pass through a conductor in 1.0μs. Find the current in ampere flowing through a conductor. Electron charge is 1.6×10^{-19}C.

(c) Write a briefly note on wheat stone bridge?

(d) A rectangular of iron is 2 cm by 2cm in across section and 40cm long. Calculate its resistance if the resistivity of iron is $11\times10^{-8}\Omega$m.

Name: ______________		Grand Test Series [*2022-23*]	Time: 90 Mints	Marks: ____ / 50
Roll#. _______	Section:_______	2^{nd} Year PHYSICS	Syllabus: Ch#14	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Magnetic flux will be minimum when plan of material is	Perpendicular	Parallel	Anti parallel	None
2	Magnetic flux is a ------ quantity	Scalar	Vector	Base	A and c
3	Lorentz force is a ------- force	Electric force	Magnetic force	A and B	None
4	The value of e/m is measured in	Volt	Kg/c	c/kg	Watt
5	The charge particle taking path in uniform B	Straight	Circular	Parabola	Hyperbola
6	Galvanometer can made sensitive by	Decreasing N	Increasing N	Constant N	Inverse the current
7	Ammeter can be made by taking a resistance in galvanometer as	Series	Parallel	Both	None
8	Voltmeter attach in circuit as	Series	Parallel	Both	None
9	Volt meter can be made by taking a resistance in galvanometer as	Series	Parallel	Both	None
10	Restoring torque is equal to	c/θ	θ/c	$c\theta$	$I\theta$

Q. No. 2 Write short answers to any 14 questions. 28

(i)	Define magnetic flux. Write its formula and unit.	(ix)	What is difference b/w ammeter and voltmeter?
(ii)	What is Lorentz force? Write its formula.	(x)	What is voltmeter? How galvanometer is converted into voltmeter?
(iii)	What do you know about grip right hand rule?	(xi)	Why does the picture on a TV screen become distorted when a magnet is brought near the screen?
(iv)	What is the function of grid in CRO?	(xii)	How can you use a magnetic field to separate isotopes of chemical element?
(v)	Write down any three use of CRO.	(xiii)	Why the resistance of an ammeter should be very low?
(vi)	What is meant by time base generator?	(xiv)	Why the resistance of the voltmeter should be very high?
(vii)	Define flux density & write its unit.	(xv)	How can a current loop be use to determine the presence of magnetic field in a given region of space?
(viii)	How can we determine the direction of force when a charge moves in magnetic field?		

Q. No. 3 Attempt any THREE questions. 12

(a) Define ampere law & find the field due to current carrying solenoid by using ampere law.
(b) Find the radius of an orbit of an electron moving at rate of 2.0×10^{7} ms^{-1} in uniform magnetic field of 1.20×10^{-3}T.
(c) Define galvanometer. Explain its working & construction.
(d) How fast must a proton move in a magnetic field of 2.50×10^{-3}T such that the magnetic force is equal to its weight?

Name: ______________________	Grand Test Series [*2022-23*]	Time: 90 Mints	Marks: ____ / 50
Roll#. _______ Section:_______	2^{nd} Year PHYSICS	Syllabus: Ch#15	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	The unit of induced emf may be	Volt	JC	JC^{-1}	Both a & c
2	One tesla is equal to	NmA^{-1}	$N^{-1}mA^{-1}$	$Nm^{-1}A^{-1}$	$N^{-1}m^{-1}A^{-1}$
3	The current can be increased by	**B**	**v**	N	All
4	Mutual inductance depends upon	Area	N	Both	None
5	The induced current depends upon	**B**	**v**	N	None
6	Practical of mutual induction is	Transformer	Capacitor	DC generator	AC generator
7	If the motor is loaded then………	Slow down	back emf decreases	motor draws more current	None
8	AC Generator is based on the	Lens	Coulomb	Faraday	Ampere
9	The turn ratio (r) for step up transformer is	r=1	r<1	r>1	r=0
10	Transformer obeys the law of conservation of	Charge	Power	Momentum	Current

Q. No. 2 Write short answers to any 14 questions. 28

(i)	Define the phenomenon of electromagnetic induction.	(ix)	Can an electric motor be used to drive an electric generator with the output from the generator being used to operate the motor?
(ii)	Write the some methods to produce induced emf.	(x)	Four unmarked wires emerge from a transformer. What steps would you take to determine the turn ratio?
(iii)	What do you know about Lenz's law? Write its mathematical form.	(xi)	In transformer, there is no transfer of charge from the primary to the secondary. How is, then the power transferred?
(iv)	Define motional emf.	(xii)	The back emf in the motor is 120V when the motor is turning at 1680 rev per min. what is the back emf when the motor turns 3360 rev per min?
(v)	What is difference between mutual induction & self induction?	(xiii)	Show that ε and ΔΦ/Δt have the same unit?
(vi)	Explain briefly the back emf affect in motor.	(xiv)	Does the induced emf always act to decreases the magnetic flux through a circuit?
(vii)	What is transformer? Write the name of its types.	(xv)	How the power is losses in transformer?
(viii)	Can a D.C motor be turned into a D.C generator? What changes are required to be done?		

Q. No. 3 Attempt any THREE questions. 12

(a)	Define and explain the Faraday's law & induced emf.
(b)	An emf of 5.6V induced in a coil while the current in nearby the coil is decreased from 100A to 20A in 0.02sec. What is the mutual inductance of the two coils? If the secondary has 200 turns, find the change in flux during this interval
(c)	Explain the working of Ac generator.
(d)	A solenoid has 250 turns and its self inductance is mH. What is the flux through each turns when the current is 2A. What is the induced emf when the current changes at $20As^{-1}$.

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Roll#. ________ Section:_______	2nd Year PHYSICS	Syllabus: Ch#16	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	If X_c=31.8Ω and V_{rms}=24V then I_{rms}=?	0.75mA	0.75V	0.75kA	0.75A
2	Power in ac circuit will be maximum if θ is	45	0	90	180
3	Power in ac circuit will be minimum if θ is	45	0	90	180
4	The current is ----- quantity	Vector	Scalar	Base	B and C
5	Power factor in ac circuit is	sin θ	P sin θ	cos θ	P coa θ
6	Power dissipation in a choke is	Small	Large	Infinite	zero
7	Electromagnetic waves are discovered by	Newton	J.Thomson	J.Maxwell	Pascal
8	Electromagnetic waves are discovered in	1860	1864	1868	1939
9	The F.M frequency range between	88-108kHz	88-108MHz	88-108mHz	None
10	The phase at the positive peak is	$\pi/2$	2π	π	3π / 2

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	Write the applications of the principal of metal detectors.	(ix)	Define the reactance of capacitor. Write its formula.
(ii)	What is electromagnetic wave? In which speed electromagnetic waves travels?	(x)	What is impedance? Write its formula and unit.
(iii)	In a R-L circuit, will the current lag or lead the voltage? Illustrate your answer by a vector diagram.	(xi)	Define alternating current. Also write its unit.
(iv)	Explain the conditions under which electromagnetic waves are produced from a source?	(xii)	What is meant by the frequency of current?
(v)	How the reception of a particular radio station is station is selected on your radio set?	(xiii)	What is meant by root mean square (rms) value of ac?
(vi)	What is meant by A.M and F.M?	(xiv)	How the alternating quantities are represented with the help of vectors?
(vii)	How does doubling the frequency affect the reactance of inductor?	(xv)	How much power are losses in capacitor?
(viii)	A sinusoidal current has rms value 10A. What is the maximum or peak value?		

Q. No. 3 Attempt any THREE questions. **12**

(a) Explain the behavior of ac through inductor.

(b) A circuit consists of a capacitor of 2μF and a resistance of 1000Ω connected in series. An alternating voltage 12V & frequency of 50Hz is applied. Find **(i)** the current in the circuit, and **(ii)** the average power supplied.

(c) Explain the parallel resonance circuit.

(d) A circuit has an inductance of $1/\pi$ H and resistance of 2000Ω. A 50 Hz A.C is supplied to it. Calculate the reactance and impedance offered by the circuit.

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Roll#. ______ Section: ______	2^{nd} Year PHYSICS	Syllabus: Ch#17	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Substances which break just after elastic limit is reached, are called	Ductile	Malleable substances	Soft substances	Brittle substances
2	Which one of the following is a ductile substance	Cooper	Lead	Wrought iron	All of them
3	SI unit of molecules of elasticity is	Volt	Pascal	Ampere	Coulomb
4	The maximum stressed that a material can withstand is called its	Permanent stress	Plastic strength	Ultimate strength	Yield strength
5	Which one of the following is pentavalent impurity	Antimony	Arsenic	phosphorus	All of above
6	The resistivity of super conductor is of the order of	$10^{5}\Omega m$	$10^{8}\Omega m$	$10^{16}\Omega m$	$0\Omega m$
7	The critical temperature for mercury is	3.7K	1.18K	4.2K	7.2K
8	Magnetism lags behind the magnetizing current this phenomenon is called	Hysteresis	Saturation	Retentivity	None
9	The curie temperature for iron is	1000 ^{0}C	750 ^{0}C	875 ^{0}C	950 ^{0}C
10	The curie temperature for $YBa_2Cu_{3.}O_7$ is	10 ^{0}C	-110 ^{0}C	163K	Both c & d

Q. No. 2 **Write short answers to any 14 questions.** **28**

(i)	What are intrinsic and extrinsic semiconductors? Give example.	(ix)	Define superconductor with example.
(ii)	Differentiate between glassy & polymeric solids.	(x)	Differentiate between Ferromagnetic and Diamagnetic substance.
(iii)	What is the effect of temperature on semiconductor?	(xi)	What is Curie temperature?
(iv)	Define bulk and shear modulus. Also write their units.	(xii)	What makes the steel hard and lead soft?
(v)	Define the solid and physics of solid.	(xiii)	What is meant by para and ferromagnetic substances? Give examples.
(vi)	Define crystalline solid and write its properties.	(xiv)	What do you know about diamagnetic materials? Give example.
(vii)	What do you know about yield point?	(xv)	What is meant by the hysteresis loss?
(viii)	Define conductors & insulators also give their examples.		

Q. No. 3 **Attempt any THREE questions.** **12**

(a) What is strain energy explain with an example also derive formula for strain energy?

(b) A wire 2.5m long and cross-section area 10^{-5} m^2 is stretched 1.5mm by a force of 100 N in the elastic region Calculate the strain and young's modulus.

(c) What do you about retantivity of hysteresis loop?

(d) A 1.0m long copper wire is subjected to stretching force and its length increase by 20cm. Calculate the tensile strain and elongation which with wire undergoes.

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Roll#. _______	Section:_______	2nd Year PHYSICS	Syllabus: Ch#18	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Depletion region carries Negative charge	Positive	Protons	charge	No charge
2	In reverse biasing a p-n junction offers	Low resistance	Zero resistance	Infinite resistance	High resistance
3	The diode cannot be used as	modulator	Amplifier	rectifier	detector
4	In semi conductor diode the p-type end is usually referred as	neutral	cathode	anode	All of above
5	The potential barrier for silicon at room temperature is	0.7v	0.3v	0.1v	None
6	Process of conversion of A.C. into D.C. is called	biasing	Rectification	modulation	Amplification
7	The number of terminals in a semiconductor diode is	3	5	4	2
8	A photo diode is used for	Automatic switching	Logic circuits	Photo detection	all of above
9	The electronic circuit which gives the inversion of input signal at the output is called	XOR GATE	NOT GATE	OR GATE	AND GATE
10	The output of two inputs OR gate is 0 only when its	Both inputs are 0	Either input is 0	Both inputs are 1	Either input is 1

Q. No. 2	Write short answers to any 14 questions.	28

(i)	What is difference b/w emitter and collector?	(ix)	Why the output of the operational amplifier is so high?
(ii)	What is difference b/w inverting and non-inverting amplifier?	(x)	What is the gain of op-amp as inverting amplifier?
(iii)	Why charge carriers are not present in the depletion region?	(xi)	Why ordinary silicon diodes do not emit light?
(iv)	Why is the base current in a transistor very small?	(xii)	What is meant by forward biased p-n junction?
(v)	What is the net charge on a n-type and p-type substance?	(xiii)	Write down the some uses of photo diode.
(vi)	How p-n junction is formed?	(xiv)	What is the difference between photo diode & photo voltaic cell?
(vii)	Why a photo diode is operated in a reverse biased state?	(xv)	What is open loop gain of operational amplifier?
(viii)	The input of the gate is 1 & 0. Identify the gate if its output is (a) 0,(b)1?		

Q. No. 3	Attempt any THREE questions.	12

(a)	Define rectification and explain the full wave rectification.
(b)	How transistor works as an amplifier. Explain?
(c)	Give symbol, truth table and mathematical notation of following gates: **i)** XNOR **ii)** AND
(d)	The transistor has a collector current of 10mA and a base current of 40μA. What is the current gain of the transistor?

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Roll#. ______ Section: ______	2nd Year PHYSICS	Syllabus: Ch#19	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Which of the following physical quantity change with relativistic speed	Mass	length	time	All
2	If energy of photon is E its equivalent to mass	m=E/C	$m=C^2/E$	$m= E/ C^2$	m=EC
3	If a material object moves with speed of light its mass becomes	Equal to rest mass	Infinite mass	Double	4-times
4	Rest mass of photon is	1.6×10^{-27} kg	9.1×10^{-27} kg	Zero	9×10^{-31} kg
5	The unit of plank's constant is	Js	J/s	Nm	W/s
6	Davison and Germer indicate the electron ----------- in their experiment.	Reflection	Refraction	Diffraction	Polarization
7	The radius of an atom is the order of	10^{10}m	10^{-10}m	10^{-15}m	10^{15}m
8	Wave nature of light appear in	Interference	Diffraction	Polarization	All of these
9	Particle of nature appear in	Interference	Diffraction	Both	Compton Effect
10	Electron microscope makes the particle use of ----- ---------------- electron.	Wave nature	Particle nature	Dual nature	All of these

Q. No. 2 Write short answers to any 14 questions. 28

(i)	What is difference between the inertial and non inertial frame of reference?	(ix)	Which has the lower energy quanta? Radio waves or X- rays.
(ii)	Write down the postulates of special theory of relativity.	(x)	Why don't we observe a Compton effects with visible light?
(iii)	What is meant by length contraction? Write its formula?	(xi)	We do not notice the de Broglie wavelength for a pitched cricket ball. Explain why?
(iv)	What is meant by the mass variation? Write its formula?	(xii)	What advantages an electron microscope has over an optical microscope?
(v)	Define ideal black body and black body radiations.	(xiii)	Can pair production take place in vacuum?
(vi)	What do you know about the photon?	(xiv)	When light behave as when and when it behaves as particle?
(vii)	Define the phenomenon of pair production.	(xv)	Will higher frequency light eject greater number of electrons than low frequency light?
(viii)	What is the phenomenon of annihilation of matter?		

Q. No. 3 Attempt any THREE questions. 12

(a)	Explain the phenomena of Compton Effect.
(b)	A 50 kev photon is Compton scattered by quasi-free electron. If the scattered photon comes off at 45^0 what is its wavelength?
(c)	Explain the Davisson and Germer Experiment?
(d)	An electron is accelerated through a potential difference of 50v. Calculate its de

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Roll#. _______	Section:_______	2nd Year PHYSICS	Syllabus: Ch#20	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Electron in atom are held due to which force	Coulomb	Nuclear	Both	None
2	An electron can never be found inside a nucleus. This is according to	Bernoulli's principle	Bohr's atomic model	Heisenberg Uncertainty	All of these
3	In Helium-Neon laser helium is present	15%	85%	40-50 %	70%
4	In Helium-Neon laser neon is present	15%	85%	40-50 %	70%
5	Laser beam are used in	Welding	Telecommun-ication	Holography	All of these

Q. No. 2	Write short answers to any 14 questions.		28
(i)	What is meant by a line spectrum? Explain, how line spectrum can be used for the identification of elements?	(ix)	What do you know about laser and helium Neon laser?
(ii)	How can the spectrum of hydrogen contain so many lines when hydrogen contains one electron?	(x)	How x-rays are produced?
(iii)	Is energy conserved when an atom emits a photon of light?	(xi)	Write down the some uses of laser in different field.
(iv)	What do we mean when we say that the atom is excited?	(xii)	What is uncertainty principle of atoms?
(v)	What are the advantages of lasers over ordinary light?	(xiii)	What is difference between band spectra and line spectra?
(vi)	Why laser action could not occur without population?	(xiv)	Why the tube is kept evocated while production of x-rays?
(vii)	Write any five uses of x-rays.	(xv)	Define spectra and spectroscopy.
(viii)	Can x-rays reflected, refracted and polarized just like any other waves?		

Q. No. 3	Attempt any THREE questions.	12
(a)	What is the Bohr's model of the hydrogen atom?	
(b)	Compute the shortest wavelength radiation in the Balmer series? What value of n must be used?	
(c)	Define Continuous x-ray spectrum and write the uses of laser?	
(d)	Find the wavelength of the spectral line corresponding to the transition in hydrogen	

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Roll#. ______ Section: ______	**2nd Year PHYSICS**	**Syllabus: Ch#21**	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	James Chadwick discovered ………….	Neutron	Proton	Both a &b	electron
2	Which has high penetrating power	alpha	beta	gamma	Positron
3	The half time of radioactive element is =	$0.763/\lambda$	$0.693/\lambda$	$\lambda/0.693$	$6.930/\lambda$
4	A pair of quark and anti-quark makes	meson	leptons	hadrons	Neutrons
5	Three quarks makes………..	hadrons	leptons	baryon	Protons
6	Which of the following have high penetrating power	Alpha	Beta	gamma	All
7	Binding energy per nucleon for uranium is	0.9Mev	7.7Mev	6.9Mev	0.36Mev
8	When alpha particle emitted out of nucleus charge of nucleus decrease by	E	2e	3e	4e
9	Which is most suitable particle for bombarding on different element	Alpha	Beta	neutron	All
10	In nuclear reactor cadmium rods are used to……..neutron	Speed up	Slow down	Absorb	Produce

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	What factors make the fusion reaction difficult to achieve?	(ix)	What do you know about half life of an atom?
(ii)	Define back ground radiation and critical mass?	(x)	What is the mass defect and binding energy?
(iii)	How can radioactivity help n treating the cancer?	(xi)	If someone swallows an alpha and a beta source? Which would be the more dangerous for him?
(iv)	Why heavy nuclei are unstable?	(xii)	What do you know about the quarks?
(v)	Mention advantages and disadvantages of fission power from the point of safety pollution and resources?	(xiii)	How can radioactivity help in the treatment of cancer?
(vi)	Which radiation are more dangerous alpha or beta and why?	(xiv)	What factors make fusion reaction difficult to achieve?
(vii)	Why a particle which can produce more ionization is less penetrating?	(xv)	What do you know about critical mass?
(viii)	Define isotopes and give example?		

Q. No. 3 Attempt any THREE questions. **12**

(a) Explain the working of nuclear reactor?

(b) Find the mass defect and binding energy for tritium, if the atomic mass of tritium is 3.0160 u?

(c) Write a brief note on fission reaction?

(d) If ${}_{92}U^{233}$ decays twice by a emission, what is the resulting isotopes?

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Roll#. _______ Section:_______	2nd Year Mathematics	Syllabus: Ch#01	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions
1	**The term function was recognized by** (a) Archimedes (b) Newton (c) Leibnitz (d) Euler
2	$f(x) = sinx + cosx$ **is a function** (a) Even (b) Odd (c) Neither Even nor Odd (d) None of these
3	$coshx =$ (a) $\frac{2}{e^x-e^{-x}}$ (b) $\frac{e^x-e^{-x}}{2}$ (c) $\frac{e^x+e^{-x}}{2}$ (d) None of these
4	A function is said to be continuous at $x = c$ if (a) $\lim_{x\to c} f(x)$ exists (b) $f(c)$is defined (c) $\lim_{x\to c} f(x) = f(c)$ (d) All of these
5	$\lim_{x\to\infty}\left(1+\frac{3}{n}\right)^{2n} =$ (a) e^5 (b) e^6 (c) e^2 (d) e
6	**The inverse of a function exists only if it is** (a) an into function (b) an onto function (c) (1-1) and into function (d) None of these
7	$x^2 + xy + y^2 = 2$ **is a function** (a) Implicit (b) Explicit (c) Even (d) Odd
8	$x = acost$ **and** $y = asint$ **represents the equation of** (a) Hyperbola (b) Parabola (c) Ellipse (d) Circle
9	$Domain\ of\ f^{-1}$ (a) $Domainf$ (b) $Range\ of\ f$ (c) $Domain\ of\ f^{-1}$ (d) Range of f^{-1}
10	$\lim_{x\to 0}\frac{e^{\frac{1}{x}}-1}{e^{\frac{1}{x}}+1}, x < 0$ **equals to** (a) 0 (b) 1 (c) -1 (d) 2

Q. No. 2	Write short answers to the questions.	30

(i)	Let $f: R \to R$ be the function defined by $f(x) = 2x + 1$. Find $f^{-1}(x)$	(ix)	Evaluate $\lim_{x\to 0}\frac{e^{\frac{1}{x}}-1}{e^{\frac{1}{x}}+1}, x > 0$
(ii)	Without finding the inverse , state the domain and range of $f(x) = (x-5)^2, x \geq 5$	(x)	Evaluate $\lim_{\theta\to 0}\frac{1-cos\theta}{\theta}$
(iii)	Define inverse of a function.	(xi)	Evaluate $\lim_{x\to 0}\frac{Sin7x}{x}$
(iv)	Define Even and Odd function	(xii)	Define the continuous function.
(v)	Find $f(-2)$ if $f(x) = \sqrt{x+4}$	(xiii)	Express the perimeter P of square as a function of its area A.
(vi)	Find L.H.L and R.H.L when $x \to c$ if $f(x) = 2x^2 + x - 5, c = 1$	(xiv)	Show that $\lim_{x\to 0}\frac{a^x-1}{x} = \log_e a$
(vii)	Determine $f(x) = x^{\frac{2}{3}} + 6$ is even or odd.	(xv)	Evaluate $\lim_{n\to+\infty}\left(1+\frac{1}{n}\right)^{\frac{1}{n}}$
(viii)	Show that $x = acos\theta, y = bsin\theta$ represent the equation of ellipse $\frac{x^2}{a^2}+\frac{y^2}{b^2} = 1$		

Q. No. 3	Attempt any THREE questions.	15

(a) Find the values of m and , so that given function f is continuous at x =3

$$f(x) = \begin{cases} mx & if \quad x < 3 \\ n & if \quad x = 3 \\ -2x+9 & if \quad x > 3 \end{cases}$$

(b) Evaluate $\lim_{\theta\to 0}\frac{tan\theta - sin\theta}{sin^3\theta}$

(c) For the real valued function , f defined below , find $f^{-1}(x)$ and verify $f(f^{-1}(x)) = (f^{-1}(f(x)) = x$ if $f(x) = -2x + 8$

(d) Given $f(x) = x^3 - ax^2 + bx + 1$ If $f(2) = -3$ and $f(-1) = 0$. Find a and b.

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Name: ____________		Grand Test Series [2022-23]	Time: 90 Mints	Marks: ____ / 55
Roll#. ______	Section:______	2nd Year Mathematics	Syllabus: Ch#02 [2.1-2.5]	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.

Sr.#	Questions			
1	The notation $\dot{f}(x)$ is used by			
	(a) Leibnitz	(b) Newton	(c) Lagrange	(d) Cauchy
2	$\lim_{x\to a}\frac{f(x)-f(a)}{x-a}=$			
	(a) $f'(x)$	(b) $f'(a)$	(c) $f(0$	(d) $f(x-a)$
3	The increment of y is denoted by			
	(a) δy	(b) dy	(c) $f'(y)$	(d) None of these
4	$\frac{d}{dx}(x^n)=nx^{n-1}$ is called			
	(a) Power rule	(b) Product rule	(c) Quotient rule	(d) Constant
5	$(fog)'(x)=$			
	(a) $f'g'$	(b) $f'g(x)$	(c) $f'(g(x))g'(x)$	(d) cannot be calculated
6	$\frac{d}{dx}(g(x))^n=$			
	(a) $n[g(x)]^{n-1}$	(b) $n[(g(x)]^{n-1}g(x)$	(c) $n[(g(x)]^{n-1}g'(x)$	(d) $[g(x)]^{n-1}g'(x)$
7	$\frac{d}{dx}\left(3x^{\frac{4}{3}}\right)=$			
	(a) $4x^{\frac{2}{3}}$	(b) $4x^{\frac{1}{3}}$	(c) $2x^{\frac{1}{3}}$	(d) $3x^{\frac{1}{3}}$
8	$\frac{d}{dx}sec^{-1}x=$			
	(a) $\frac{1}{\lvert x\rvert\sqrt{x^2-1}}$	(b) $\frac{-1}{\lvert x\rvert\sqrt{x^2-1}}$	(c) $\frac{1}{\lvert x\rvert\sqrt{1+x^2}}$	(d) $\frac{-1}{\lvert x\rvert\sqrt{1+x^2}}$
9	Differentiating sin^3x w.r.t cos^2x is			
	(a) $-\frac{3}{2}sinx$	(b) $\frac{3}{2}sinx$	(c) $\frac{2}{3}cosx$	(d) $-\frac{2}{3}cosx$
10	$\frac{d}{dx}(Sin^{-1}x)=\frac{1}{\sqrt{1-x^2}}$ is valid for			
	(a) $0<x<1$	(b) $-1<x<0$	(c) $-1<x<1$	(d) None of these

Q. No. 2 Write short answers to any 15 questions. **30**

(i)	Find the derivative of the given function by definition $f(x)=x^2$	(ix)	If $y=\sqrt{tanx+\sqrt{tanx+\sqrt{tanx}}+\cdots\infty}$, prove that $(2y-1)\frac{dy}{dx}=sec^2x$
(ii)	Find from first Principles , the derivative $w.r.t$ 'x' $(ax+b)^3$	(x)	Differentiate $w.r.t$ the variable involved $tan^3\theta sec^2\theta$
(iii)	Find $\frac{dy}{dx}$ if $y=xcosy$	(xi)	If $tany(1+tanx)=1-tanx$, show that $\frac{dy}{dx}=-1$
(iv)	Differentiate sin^2x $w.r.t$ cos^2x	(xii)	Differentiate $x^2+\frac{1}{x^2}$ $w.r.t$ $x-\frac{1}{x}$
(v)	Find the derivative of $y=(2\sqrt{x}+2)(x-\sqrt{x})w.r.t$ 'x'	(xiii)	Differentiate $(x-5)(3-x)$
(vi)	Differentiate $\frac{2x^3-3x^2+5}{x^2+1}$ $w.r.t$ 'x'	(xiv)	if $y=\sqrt{x+\sqrt{x}}$
(vii)	Find $\frac{dy}{dx}$ if $x=\theta+\frac{1}{\theta}$, $y=\theta+1$	(xv)	Find $\frac{dy}{dx}$ by making some suitable substitution
(viii)	Differentiate $\left(\sqrt{x}-\frac{1}{\sqrt{x}}\right)^2$ $w.r.t$ 'x'.	(xvi)	Find $\frac{dy}{dx}$ if $x=\frac{a(1-t^2)}{1+t^2}$, $y=\frac{2bt}{1+t^2}$

Q. No. 3 Attempt any THREE questions. **15**

(a)	Find from first principles the derivative of $\frac{1}{(az-b)^7}$
(b)	Show that $\frac{dy}{dx}=\frac{y}{x}$ if $\frac{y}{x}=Tan^{-1}\frac{x}{y}$
(c)	Differentiate $Cot^{-1}\left(\frac{x}{a}\right)$
(d)	Find $\frac{dy}{dx}$ if $y=\frac{(1+\sqrt{x})(x-x^{\frac{3}{2}})}{\sqrt{x}}$

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Roll#. ______	Section:______	2^{nd} Year Mathematics	Syllabus: Ch#02[2.6-2.10]	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions
1	If $y = e^{ax}$ then $\frac{dy}{dx} =$ (a) $\frac{1}{e^x}$ (b) ae^{ax} (c) e^{ax} (d) $\frac{1}{a}e^{ax}$
2	If $tanh(x^2)$ then $\frac{dy}{dx} =$ (a) $\text{sech}^2 x^2$ (b) $\text{sech}^2 x tanh^2 x$ (c) $2\,\text{sech}^2 x$ (d) $2x sech^2 x$
3	$\frac{d^4}{dx^4}(x^8 + 12)$ is: (a) $8.7.6x^5$ (b) $8x^7$ (c) $\frac{8!}{4!}x^4$ (d) $8.7.6.5.4.x^3$
4	If $y = cosx$, then $y_4 =$ (a) y_1 (b) y_2 (c) y_3 (d) y
5	If a function f is increasing within $]a, b[$,then slope of tangent to its graph within $]a, b[$remains (a) Positive (b) Negative (c) Zero (d) Undefined
6	A point where 1st derivative of function is zero , is called (a) Stationary point (b) corner point (c) point of concurrency (d) common point
7	$(x) = f(0) + xf'(x) + \frac{x^2}{2!}f''(x) + \frac{x^3}{3!}f'''(x) + \cdots \ldots + \frac{x^n}{n!}f^n(x) \ldots$ is called_____ series. (a) Machlaurin's (b) Taylor's (c) Convergent (d) Divergent
8	$a_0 + a_1x + a_2x^2 + \cdots + a_nx^n + \cdots$ is (a) Maclaurin's series (b) Taylor Series (c) Power Series (d) Bionomial Series

Q. No. 2 Write short answers to any 11 questions. **22**

(i)	Find $f'(x)$ if $f(x) = e^x\,(1 + lnx)$	viii)	Find y_2 if $x = acos\theta, y = sin\theta$
(ii)	Find $\frac{dy}{dx}$ if $y = (ln\ tanhx)$	(ix)	Find y_2 if $x^3 - y^3 = a^3$
(iii)	Find $\frac{dy}{dx}$ if $y = 5e^{3x-4}$	(x)	Find y_2 if $y = x^2.e^{-x}$
(iv)	Apply Maclaurin's Series expansion to prove that $e^{2x} = 1 + 2x + \frac{4x^2}{2!} + \frac{8x^3}{3!} + \cdots$	(xi)	Determine the interval in which $f(x) = Cosx$; $x \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$
(v)	Determine the interval in which $f(x) = x^2 + 3x + 2; x \in [-4,1]$	(xii)	State Taylor's series expansion
(vi)	Find the extreme values of the function $f(x) = 3x^2 - 4x + 5$	(xiii)	If $y = Sin^{-1}\frac{x}{a}$, then show that $y_2 = x(a^2 - x^2)^{-\frac{3}{2}}$
(vii)	Find the first four derivatives of $cos(ax + b)$		

Q. No. 3 Attempt any THREE questions. **15**

(a) Find $f'(x)$ if $f(x) = \sqrt{ln(e^{2x} + e^{-2x})}$

(b) Show that $2^{x+h} = 2x[1 + (ln2)h + (ln2)^2\frac{h^2}{2!} + (ln2)^3\frac{h^3}{3!} + \cdots$

(c) Show that $y = \frac{lnx}{x}$ has maximum value at $x = e$.

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Name: ________________		Grand Test Series [2022-23]	Time: 90 Mints	Marks: ____ / 55
Roll#. _______	Section:_______	2nd Year Mathematics	Syllabus: Ch#3 [3.1-3.4]	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.

Sr.#	Questions
1	If $y = f(x)$, $f(x+\delta x)$ closely related to (a) $f(x) + f(x+\delta x)$ (b) $f(x) + dy$ (c) $f(x).f(x+\delta x)$ (d) $f(x) + \delta x$
2	If $y = f(x)$, then differential of y is (a) $dy = f'(x)$ (b) $dy = f'(x)dx$ (c) $dy = f(x)dx$ (d) $\frac{dy}{dx}$
3	$\int \sin(ax+b)\,dx =$ $\frac{-1}{a}\cos(ax+b)+c$ (b) $\frac{1}{a}\cos(ax+b)+c$ (c) $a\cos(ax+b)+c$ (d) $-a\cos(ax+b)+c$
4	$\int \frac{dx}{\sqrt{x+a}+\sqrt{x}}$ can be evaluated if (a) $x>0, a>0$ (b) $x<0, a>0$ (c) $x<0, a<0$ (d) $x>0, a<0$
5	$\int e^{x^2}.x dx =$ (a) $\frac{a^{x^2}}{lna}+c$ (b) $\frac{a^{x^2}}{2lna}+c$ (c) $a^{x^2}lna+c$ (d) $\frac{a^{x^2}}{2}+c$
6	In $\int (x^2-a^2)^{\frac{1}{2}}dx$, the substitution is (a) $x = atan\theta$ (b) $x = asec\theta$ (c) $x = asin\theta$ (d) $x = 2asin\theta$
7	The suitable substitution for $\int\sqrt{a^2+x^2}dx$ is: (a) $x = atan\theta$ (b) $x = asin\theta$ (c) $x = acos\theta$ (d) None of these
8	$\int xcosxdx =$ (a) $sinx+cosx+c$ (b) $cosx-sinx+c$ (c) $xsinx+cosx+c$ (d) None
9	$\int e^x\left[\frac{1}{x}-\frac{1}{x^2}\right] =$ (a) $e^x\frac{1}{x}+c$ (b) $-e^x\frac{1}{x}+c$ (c) $e^x lnx+c$ (d) $-e^x\frac{1}{x^2}+c$
10	$\int \frac{e^{Tan^{-1}x}}{1+x^2}dx =$ (a) $e^{Tanx}+c$ (b) $\frac{1}{2}e^{Tan^{-1}x}+c$ (c) $x\,e^{Tan^{-1}x}+c$ (d) $e^{Tan^{-1}x}+c$

Q. No. 2 Write short answers to any 15 questions. 30

(i)	Find δy and dy if $y = x^2+2x$ when x changes from 2 to 1.8	(ix)	Evaluate $\int\frac{(1+e^x)^3}{e^x}dx$
(ii)	Find the approximate increase in the volume of a cube if the length of its each edge changes from 5 to 5.02	(x)	Evaluate $\int\frac{sinx+cos^3x}{cos^2xsinx}dx$
(iii)	Evaluate $\int(\sqrt{x}+1)^2dx$	(xi)	Evaluate $\int\sqrt{1-cos2x}\,dx$
(iv)	Evaluate $\int(lnx)\times\frac{1}{x}dx$	(xii)	Evaluate $\int\frac{cos2x-1}{1+cos2x}dx$
(v)	Evaluate $\int\frac{sec^2x}{\sqrt{tanx}}dx$	(xiii)	Evaluate $\int\frac{dx}{x(ln2x)^3}, (x>0)$
(vi)	Evaluate $\int\frac{e^x}{e^x+3}dx$	(xiv)	Evaluate $\int x^2e^{ax}dx$
(vii)	Evaluate $\int\frac{e^{mTan^{-1}x}}{(1+x^2)}dx$	(xv)	Evaluate $\int e^{ax}\left[aSec^{-1}x+\frac{1}{x\sqrt{x^2-1}}\right]$
(viii)	Evaluate $\int\left(\frac{1-sinx}{1-cosx}\right)e^xdx$	(xvi)	Evaluate $\int\frac{cosx}{sinxlnsinx}dx$

Q. No. 3 Attempt any THREE questions. 15

(a) Use differentials to approximate the values of $\sqrt[4]{17}$.

(b) Show that $\int\sqrt{a^2-x^2}dx = \frac{a^2}{2}Sin^{-1}\frac{x}{2}+\frac{x}{2}\sqrt{a^2-x^2}+c$

(c) Show that $\int e^{ax}sinbx = \frac{1}{\sqrt{a^2+b^2}}e^{ax}\sin\left(bx-Tan^{-1}\frac{b}{a}\right)+c$

(d) Evaluate $\int e^{2x}cos3xdx$

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Name: ______________		Grand Test Series [*2022-23*]	Time: 90 Mints	Marks: ____ / 55
Roll#. ________	Section:________	2nd Year Mathematics	Syllabus: Ch#03 [3.5-3.8]	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions
1	$\int \frac{2a}{x^2-a^2}dx =$ (a) $\frac{x-a}{x+a}+c$ (b) $\ln\frac{x-a}{x+a}+c$ (c) $ln\frac{x+a}{x-a}+c$ (d) $\ln\|x-a\|+c$
2	$\int_0^{-\pi} sinxdx$ equals to: (a) -2 (b) 0 (c) 2 (d) 1
3	$\int_0^3 \frac{dx}{x^2+9} =$ (a) $\frac{\pi}{4}$ (b) $\frac{\pi}{12}$ (c) $\frac{\pi}{2}$ (d) None of these
4	$\int_0^2 2xdx$ is equal to (a) 9 (b) 7 (c) 4 (d) 0
5	$\int_{\pi}^{-\pi} sinxdx =$ (a) 2 (b) -2 (c) 0 (d) -1
6	Solution of differential equation $\frac{dv}{dt} = 2t - 7$ is : (a) $v = t^2 - 7t^3 + c$ (b) $v = t^2 + 7t + c$ (c) $v = t - \frac{7t^2}{2} + c$ (d) $v = t^2 - 7t + c$
7	If $\frac{dy}{dx} = -y$ then $y =$ (a) e^{-cx} (b) $e^{-x}+c$ (c) $-e^x$ (d) ce^{-x}
8	A differential equation having order _____ is called a second order differential equation. (a) One (b) three (c) four (d) two
9	The solution of differential equation $\frac{dy}{dx} = sec^2x$ is (a) $y = cosx + c$ (b) $y = tanx + c$ (c) $y = sinx + c$ (d) $y = cotx + c$
10	The Solution of $\frac{dy}{dx} = \frac{x}{y}$ is (a) $y = x^2 + c$ (b) $y^2 = x^2 + c$ (c) $y^2 = x^2 + 2c$ (d) $y^2 = 2x$

Q. No. 2 **Write short answers to any 15 questions.** **30**

(i)	Evaluate $\int \frac{2a}{a^2-x^2}dx$	(ix)	Evaluate $\int \frac{(a-b)x}{(x-a)(x-b)}dx$
(ii)	Evaluate $\int \frac{5x+8}{(x+3)(2x-1)}dx$	(x)	Evaluate $\int_1^2 \frac{x}{x^2+2}dx$
(iii)	Evaluate $\int_0^2 (e^{\frac{x}{2}} - e^{-\frac{x}{2}})dx$	(xi)	Evaluate $\int_0^{\frac{\pi}{6}} xcosxdx$
(iv)	Evaluate $\int_1^2 \left(x+\frac{1}{x}\right)^{\frac{1}{2}}\left(1-\frac{1}{x^2}\right)dx$	(xii)	Evaluate $\int_2^3 \left(x-\frac{1}{x}\right)^2 dx$
(v)	Find the area bounded by the curve $y = x^3 + 3x^2$ and the $x-axis$.	(xiii)	Find the area between the $x-axis$ and the curve $y^2 = 4 - x$ in the first quadrant from $x = 0$ to $x = 3$.
(vi)	Find the area bounded by cos function from $y = -\frac{\pi}{2}$ to $\frac{\pi}{2}$.	(xiv)	Find the area between the $x-axis$ and the curve $y = cos\frac{1}{2}x$ form $-\pi$ to π.
(vii)	Solve $\frac{dy}{dx} = \frac{3}{4}x^2 + x - 3$, if $y = 0$ and $x = 2$	(xv)	Solve $1 + cosx\, tany\frac{dy}{dx} = 0$
(viii)	Solve $\frac{dy}{dx} = \frac{y}{x^2}$, $(y > 0)$	(xvi)	Solve $\frac{1}{x}\frac{dy}{dx} - 2y = 0$

Q. No. 3 **Attempt any THREE questions.** **15**

(a)	Evaluate $\int \frac{2x^2}{(x-1)^2(2x+3)}dx$
(b)	Evaluate $\int_{\frac{\pi}{6}}^{\frac{\pi}{4}} cos^2\theta cot^2\theta d\theta$
(c)	Find the area between the $x-axis$ and the curve $y = \sqrt{2ax - x^2}$ when $a > 0$.
(d)	Solve the differential equation $\frac{ds}{dt} + 2st = 0$. Also find the particular solution if $s = 4e$, when $t = 0$.

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Roll#. ______	Section:______	2nd Year Mathematics	Syllabus: Ch#04 [4.1 , 4.2 , 4.4]	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.

Sr.#	Questions
1	**The study of geometry with the help of algebra is known as** (a) Analytic geometry (b) Algebra (c) Trigonometry (d) None of these
2	**The distance of any point P(x,y) from the origin is** (a) x (b) y (c) x^2+y^2 (d) $\sqrt{x^2+y^2}$
3	**If $x<0$, $y>0$ then the point $P(-x,-y)$ lies in the quadrant** (a) I (b) II (c) III (d) IV
4	**If φ be an angle between two lines l_1 and l_2 when slopes m_1 and m_2, then angle from l_1 to l_2** (a) $tan\varphi=\frac{m_1-m_2}{1+m_1m_2}$ (b) $tan\varphi=\frac{m_2-m_1}{1+m_2m_1}$ (c) $tan\varphi=\frac{m_1+m_2}{1+m_1m_2}$ (d) $tan\varphi=\frac{m_2+m_1}{1+m_1m_2}$
5	**The lines represented by $ax^2+2hxy+by^2=0$ are orthogonal if** (a) $a-b=0$ (b) $a+b=0$ (c) $a+b>0$ (d) $a-b<0$
6	**Two lines l_1 and l_2 with slopes m_1 and m_2 are perpendicular if** (a) $m_1-m_2=0$ (b) $m_1+m_2=0$ (c) $m_1m_2=0$ (d) $m_1m_2=-1$
7	**Two lines $a_1x+b_1y+c_1=0$ and $a_2x+b_2y+c_2=0$ are parallel if** (a) $\frac{a_1}{a_2}=\frac{b_1}{b_2}$ (b) $\frac{a_1}{b_1}=-\frac{a_2}{b_2}$ (c) $\frac{a_1}{c_1}=\frac{a_2}{c_2}$ (d) $\frac{b_1}{c_1}=\frac{b_2}{c_2}$
8	**Two lines l_1 and l_2 with slopes m_1 and m_2 are parallel if** (b) $m_1-m_2=0$ (b) $m_1+m_2=0$ (c) $m_1m_2=0$ (d) $m_1m_2=-1$
9	**If O(0,0) , A(4,6) are the two points then the co-ordinates of mid point $\overline{OA}$ are** (a) (4,3) (b) (2,3) (c) (4,6) (d) (2,6)
10	**If x and y have opposite signs then the point $P(x,y)$ lies the quadrants** (a) I & II (b) I & III (c) II & IV (d) I & IV

Q. No. 2 Write short answers to any 15 questions. 30

(i)	Find the points trisecting the join of $A(-1,-4)$ and $B(6,2)$.	(ix)	The two points P and O' are given in xy −coordinate system. Find the XY-coordinates of P referred to the translated axes $O'X$ and $O'Y$ if $P(-2,6)$ and $O'(-3,2)$.
(ii)	Find h such that $(-1,h)$, $B(3,2), and\ C(7,3)$ are collinear.	(x)	The xy-coordinate axes are translated through point O' whose coordinates are given in xy −coodinate system. The coordinates of P are given in the XY −coodinate system. Find the coordinates of P in xy-coordiante system if $(-5,-3)$, $O'(-2,3)$.
(iii)	Show that the points $A(3,1), B(-2,-3)$ and $C(2,2)$ are vertices of an isosceles triangle.	(xi)	What are translated axes.
(iv)	Find the mid-point of the line segment joining the vertices $A(-8,3), B(2,-1)$.	(xii)	What are rotated axes.
(v)	Find the point three-fifth of the way along the line segment from $A(-5,8)$ to $B(5,3)$.	(xiii)	Find the point of intersection of the lines $x-2y+1=0$ and $2x-y+2=0$
(vi)	Find the angle from the line with slope $-\frac{7}{3}$ to the line with slope $\frac{5}{2}$.	(xiv)	Find the angle measured from the line l_1 to the line l_2 where l_1: Joining (2,7) and (7,10) ,l_2: Joining (1,1) and (−5,5)
(vii)	Express the given system of equations in matrix form $2x+3y+4=0; x-2y-3=0; 3x+y-8=0$	(xv)	Find an equation of the line through the point $(2,-9)$ and the intersection of the lines $2x+5y-8=0$ and $3x-4y-6=0$.
(viii)	Determine the value of p such that the lines $2x-3y-1=0, 3x-y-5=0$ and $3x+py+8=0$ meet at a point.	(xvi)	Show that the vertices $(-1,2)$, $B(7,5), C(2,-6)$ are vertices of a right triangle.

Q. No. 3 Attempt any THREE questions. 15

(a)	Show that the points $A(5,2), B(-2,3), C(-3,-4)$ and $D(4,-5)$ are the vertices of a $||^m$. Is the $||^m$ a square.
(b)	The xy −coordiante axes are rotated about the origin through the indicated angle. The new axes are $O'X$ and $O'Y$.Find the XY-cooridiantes of the point P with the given xy-coordinates if $P(15,10)$ and $\theta=arctan\frac{1}{3}$
(c)	Find the interior angles of the triangle whose vertices are: $A(6,1), B(2,7), C(-6,-7)$
(d)	Find the interior angles of the quadrilateral whose vertices are : $A(5,2), B(-2,3), C(-3,-4)$ and $D(4,-5)$

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Name: ____________	Grand Test Series [2022-23]	Time: 90 Mints	Marks: ____ / 50
Roll#. _______ Section: _______	2nd Year Mathematics	Syllabus: Ch#04 [4.3 , 4.5]	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.

Sr.#	Questions
1	The two intercepts form of the equation of the straight line is (a) $y = mx + c$ (b) $y - y_1 = m(x - x_1)$ (c) $\frac{x}{a} + \frac{y}{b} = 1$ (d) $x\cos\alpha + y\cos\alpha = p$
2	In the normal form $x\cos\alpha + y\cos\alpha = p$ the value of p is (a) Positive (b) Negative (c) positive or negative (d) Zero
3	The slope of the line perpendicular to $ax + by + c = 0$ (a) $\frac{a}{b}$ (b) $-\frac{a}{b}$ (c) $\frac{b}{a}$ (d) $-\frac{b}{a}$
4	The $x - intercept$ $4x + 6y = 12$ is (a) 4 (b) 6 (c) 3 (d) 2
5	The slope of the line $ax + by + c = 0$ is (a) $\frac{a}{b}$ (b) $-\frac{a}{b}$ (c) $\frac{b}{a}$ (d) $-\frac{b}{a}$
6	The perpendicular distance of the line $3x + 4y + 10 = 0$ from the origin is (a) 0 (b) 1 (c) 2 (d)
7	The equation $y^2 - 16 = 0$ represents two lines. (a) Parallel to $x - axis$ (b) Parallel $y - axis$ (c) not || to $x - axis$ (d) not || to $y - axis$
8	The equation $y^2 - 16 = 0$ represents two lines. (a) Parallel to $x - axis$ (b) Parallel $y - axis$ (c) not || to $x - axis$ (d) not || to $y - axis$
9	Every homogenous equation of second degree $ax^2 + bxy + by^2 = 0$ represents two straight lines (a) Through the origin (b) not through the origin (c) two || line (d) two ⊥ar lines
10	The lines represented by $ax^2 + 2hxy + by^2 = 0$ are orthogonal if (b) $a - b = 0$ (b) $a + b = 0$ (c) $a + b > 0$ (d) $a - b < 0$

Q. No. 2 Write short answers to any 15 questions. **30**

(i)	Show that the points $A(-3,6), B(3,2)$ and $C(6,0)$ are collinear.	(ix)	Find an equation of each of the lines represented by $20x^2 + 17xy - 24y^2 = 0$
(ii)	Find an equation of the straight line if its slope is 2 and $y - axis$ is 5.	(x)	Define Homogenous equation.
(iii)	Find the slope and inclination of the line joining the points $(-2,4); (5,11)$	(xi)	Write down the joint equation.
(iv)	Find k so that the line joining $A(7,3); B(k,-6)$ and the line joining $C(-4,5); D(-6,4)$ are perpendicular.	(xii)	Find a joint equation of the straight lines through the origin perpendicular to the lines represented by $x^2 + xy - 6y^2 = 0$.
(v)	Find an equation of the line bisecting the I and III quadrants.	(xiii)	Find measure of angle between the lines represented by $x^2 - xy - 6y^2 = 0$.
(vi)	Find an equation of the line for $x - intercept: -3$ and $y - intercept: 4$	(xiv)	Check whether the lines are concurrent or not. $3x - 4y - 3 = 0; 5x + 12y + 1 = 0; 32x + 4y - 17 = 0$
(vii)	Find the distance from the point $P(6,-1)$ to the line $6x - 4y + 9 = 0$	(xv)	Transform the eqution $5x - 12y + 39 = 0$ to "Two-intercept form".
(viii)	Find whether the given point (5,8) lies above or below the line $2x - 3y + 6 = 0$	(xvi)	

Q. No. 3 Attempt any THREE questions. **15**

(a)	Find the distance between the line given parallel lines. Sketch the lines. Also find an equation of the parallel line lying midway between them. $3x - 4y + 3 = 0$; $3x - 4y + 7 = 0$
(b)	The points $A(-1,2), B(6,3)$ and $C(2,-4)$ are vertices of a triangle. Show that the line joining the midpoint D of AB and the midpoint E of AC is parallel to BC and $DE = \frac{1}{2}BC$.
(c)	Find the lines represented by $x^2 + 2xy\sec\alpha + y^2 = 0$ and also find measure of the angle between them.
(d)	Find a joint equation of the lines through the origin and perpendicular to the lines : $ax^2 + 2hxy + by^2 = 0$

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Roll#. ________	Section:________	2nd Year Mathematics	Syllabus: Ch#05	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions
1	**The feasible solution which maximizes or minimizes the objective function is called** (a) Exact solution (b) optimal solution (c) final solution (d) objective function
2	**For feasible region:** (a) $x \geq 0, y \geq 0$ (b) $x \geq 0, y \leq 0$ (c) $x \leq 0, y \geq 0$ (d) $x \leq 0, y \leq 0$
3	**The non-negative constraints are also called** (a) Decision variable (b) Convex variable (c) Decision constraints (d) concave variable
4	**(0,0) is satisfied by** (a) $x - y < 10$ (b) $2x + 5y > 10$ (c) $x - y \geq 13$ (d) None
5	**The point where two boundary lines of a shaded region intersect is called _____ point.** (a) Boundary (b) corner (c) stationary (d) feasible
6	$ax + by < c$ **is not a linear inequality if** (a) $a = 0, b = 0$ (b) $a \neq 0, b \neq 0$ (c) $a = 0, b \neq 0$ (d) $a \neq 0, b = 0, c = 0$
7	**The graph of the inequality $x \leq b$ is** (a) Upper half plane (b) lower half plane (c) left half plane (d) right half plane
8	**A function which is to be maximized or minimized is called:** (a) Linear function (b) Objective function (c) Feasible function (d) None of these
9	**For optimal solution we evaluate the objective function at** (a) Origen (b) Vertex (c) Corner Points (d) Convex points
10	**We find corner points at** (a) Origen (b) Vertex (c) Feasible region (d) Convex region

Q. No. 2	**Write short answers to any 15 questions.**	**30**

(i)	Graph the feasible region of $x + y \leq 5$; $-2x + y \leq 0$ $x \geq 0; y \geq 0$	**(ix)**	What is "Convex".
(ii)	Graph the feasible region of $5x + 7y \leq 35; x - 2y \leq 4$ $x \geq 0; y \geq 0$	**(x)**	Define "Feasible region".
(iii)	Graph the feasible region of $2x - 3y \leq 6; 2x + y \geq 2$ $x \geq 0; y \geq 0$	**(xi)**	
(iv)	Define "Corner Point" or "Vertex".	**(xii)**	
(v)	Graph the solution set of linear inequality $3x + 7y \geq 21$.	**(xiii)**	
(vi)	Indicate the solution set of : $3x + 7y \geq 21$; $x - y \leq 2$	**(xiv)**	
(vii)	What is "Corresponding equation".	**(xv)**	
(viii)	Graph the inequality $x + 2y < 6$.	**(xvi)**	

Q. No. 3	**Attempt any THREE questions.**	**15**

(a)	Graph the following system of inequalities and find the corner points: $x + y \leq 5$; $-2x + y \leq 0$; $y \geq 0$
(b)	Graph the feasible region and find the corner points of: $2x + y \leq 20$; $8x + 15y \leq 120$; $x + y \leq 11$ $x \geq 0$; $y \geq 0$
(c)	Maximize $f(x, y) = x + 3y$ subject to constraints: $2x + 5y \leq 30$; $5x + 4y \leq 20$ $x \geq 0$; $y \geq 0$
(d)	Maximize $f(x, y) = 2x + 5y$ subject to constraints $2y - x \leq 8$; $x - y \leq 4$ $x \geq 0$; $y \geq 0$

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Roll#. ______	Section:______	2nd Year Mathematics	Syllabus: Ch#06	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.

Sr.#	Questions
1	**The set of points which are equal distance from a fixed point is called:** (a)Circle (b) Parabola (c) Ellipse (d) Hyperbola
2	**The equation $x^2+y^2+2gx+2fy+c=0$ represents the circle with centre** (a) (g,f) (b) $(-g,-f)$ (c) $(-f,-g)$ (d) $(g,-f)$
3	**Standard equation of Parabola is :** (a) $y^2=4a$ (b) $x^2+y^2=a^2$ (c) $y^2=4ax$ (d) $S=vt$
4	**Eccentricity of the ellipse $\frac{x^2}{a^2}+\frac{y^2}{b^2}=1$ is** (a) $\frac{a}{c}$ (b) ac (c) $\frac{c}{a}$ (d) None of these
5	**Equation of the directrix of $x^2=-4ay$ is:** (a) $x+a=0$ (b) $x-a=0$ (c) $y+a=0$ (d) $y-a=0$
6	**The eccentricity of ellipse $\frac{x^2}{16}+\frac{y^2}{9}=1$ is** (a) $\frac{\sqrt{7}}{4}$ (b) $\frac{7}{4}$ (c) 16 (d) 9
7	**If $c=\sqrt{65}$, $b=7$ and $a=4$ then the eccentricity of hyperbola is :** (a) $\frac{\sqrt{65}}{4}$ (b) $\frac{65}{16}$ (c) $\frac{\sqrt{65}}{7}$ (d) $\frac{7}{4}$
8	**The foci of hyperbola always lie on :** (a) $x-axis$ (b) $Transverse\ axis$ (c) $y-axis$ (d) Conjugate axis
9	**Length of transverse axis of the hyperbola $\frac{x^2}{a^2}-\frac{y^2}{b^2}=1$ is** (a) $2a$ (b) $2b$ (c) a (d) b
10	**Focus of the ellipse always lies on the** (a) Minor axis (b) Major axi (c) Directrix (d) None of these

Q. No. 2 Write short answers to any 15 questions. 30

(i)	Find the centre and radius of the circle of: $x^2+y^2+12x-10y=0$	(ix)	Find the equation of the circle with ends of a diameter at $(-3,2)$ and $(5,-6)$.
(ii)	The point of a parabola which is closest to the focus is the vertex of the parabola.	(x)	Analyze the parabola $x^2=-16y$
(iii)	Find equations of the common tangents to the two conics $\frac{x^2}{16}+\frac{y^2}{25}=1$ and $\frac{x^2}{25}+\frac{y^2}{9}=1$	(xi)	Analyze the equation $4x^2+9y^2=36$
(iv)	Find the points of intersection of the ellipse $\frac{x^2}{\frac{43}{3}}+\frac{y^2}{\frac{43}{4}}=1$ and the hyperbola $\frac{x^2}{7}-\frac{y^2}{14}=1$	(xii)	Define Hyperbola.
(v)	Find the points of intersection of the conics $x^2+y^2=8$ and $x^2-y^2=1$	(xiii)	Discuss $25x^2-16y^2=400$
(vi)	Find equations of the common tangents to the given conics $y^2=16x$ and $x^2=2y$	(xiv)	Find equations of the tangents to the conic $9x^2-4y^2=36$ parallel to $5x-2y+7=0$
(vii)	Find an equation of $5x^2-6xy+5y^2-8=0$ with respect to new axes obtained by rotation of axes about the origin through an angle of 135°.	(xv)	Transform the equation $x^2+6x-8y+17=0$ referred to the origin $O'(-3,1)$ as origin, axes remaining parallel to the old axes.
(viii)	Define Parabola.	(xvi)	Write the equation of the circle with centre $(-3,5)$ and radius.

Q. No. 3 Attempt any THREE questions. 15

(a)	Prove that length of a diameter of the circle $x^2+y^2=a^2$ is $2a$
(b)	Write equations of the parabola with given elements Focus $(-3,1)$; directrix $x=3$ directrix $x=-2$, Focus $(2,2)$ Directrix $=3$; vertex $(2,2)$
(c)	Prove that the letusrectum of the ellipse $\frac{x^2}{a^2}+\frac{y^2}{b^2}=1$ is $\frac{2b^2}{a}$
(d)	Find equations of tangent and normal to each of the following at the indicated point: $\frac{x^2}{a^2}+\frac{y^2}{b^2}=1$ at $(a\cos\theta, b\sin\theta)$

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Name: ____________		Grand Test Series [2022-23]	Time: 90 Mints	Marks: ____ / 55
Roll#. ______	Section:______	2nd Year Mathematics	Syllabus: Ch#07	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.

Sr.#	Questions
1	**The vector whose initial point is at the origin and terminal point is P, is called** (a) Null vector (b) unit vector (c) position vector (d) normal vector
2	**If $\underline{u} = [x, y]$ in R^2, then $\lvert\underline{u}\rvert$ =?** (a) $x^2 + y^2$ (b) $\sqrt{x^2+y^2}$ (c) $\pm\sqrt{x^2+y^2}$ (d) $x^2 - y^2$
3	**$\underline{k}$ unit vector is along** (a) $x - axis$ (b) $y - axis$ (c) $z - axis$ (d) $k - axis$
4	**Measure of angle θ between two vectors is always.** (a) $0 < \theta < \pi$ (b) $0 \le \theta \le \frac{\pi}{2}$ (c) $0 \le \theta \le \pi$ (d) obtuse
5	**If θ be the angle between two vectors $\underline{a}$ and $\underline{b}$, then projection of $\underline{b}$ along $\underline{a}$ is** (a) $\frac{\underline{a}\times\underline{b}}{\lvert\underline{a}\rvert\lvert\underline{b}\rvert}$ (b) $\frac{\underline{a}.\underline{b}}{\lvert\underline{a}\rvert\lvert\underline{b}\rvert}$ (c) $\frac{\underline{a}.\underline{b}}{\lvert\underline{a}\rvert}$ (d) $\frac{\underline{a}.\underline{b}}{\lvert\underline{b}\rvert}$
6	**Let $\underline{u} = a\underline{i} + b\underline{j} + c\underline{k}$ then projection of $\underline{u}$ along $\underline{k}$ is** (a) a (b) b (c) c (d) u
7	**If $\underline{u}$ and $\underline{v}$ are two vectors, then $\underline{u} \times \underline{v}$ is a vector** (a) Parallel to $\underline{u}$ and $\underline{v}$ (b) parallel to $\underline{u}$ (c) perpendicular to $\underline{u}$ and $\underline{v}$ (d) orthogonal to $\underline{u}$
8	**Two non zero vectors are perpendicular iff** (a) $\underline{u}.\underline{v} = 1$ (b) $\underline{u}.\underline{v} \ne 1$ (c) $\underline{u}.\underline{v} \ne 0$ (d) $\underline{u}.\underline{v} = 0$
9	**Notation for scalar triple product of $\underline{a}$, $\underline{b}$ and $\underline{c}$ is** (a) $\underline{a}.\underline{b} \times \underline{c}$ (b) $\underline{a} \times \underline{b}.\underline{c}$ (c) $[\underline{a}.\underline{b}.\underline{c}]$ (d) all of these
10	**Moment of a force $\underline{F}$ about a point is given by:** (a) Dot product (b) cross product (c) both (a) and (b) (d) None of these

Q. No. 2 Write short answers to any 15 questions. **30**

(i)	Find the sum of the vectors $\overrightarrow{AB}$ and $\overrightarrow{CD}$, given the four points $A(1,-1), B(2,0), C(-1,3)$ and $D(-2,2)$	(ix)	If B, C and D are respectively $(4,1), (-2,3)$ and $(-8,0)$. Use vector method to find the coordinates of the point A if $ABCD$ is a parallelogram.
(ii)	Find the unit vector in the direction of vector given $\underline{v} = \frac{1}{2}\underline{i} + \frac{\sqrt{3}}{2}\underline{j}$	(x)	Find a and b so that the vectors $3\underline{i} - \underline{j} + 4\underline{k}$ and $a\underline{i} + b\underline{j} - 2\underline{k}$ are parallel.
(iii)	Find α, so that $\lvert\alpha\underline{i} + (\alpha+1)\underline{j} + 2\underline{k}\rvert = 3$	(xi)	Find Two vectors of length 2 parallel to the vector $\underline{v} = 2\underline{i} - 4\underline{j} + 4\underline{k}$.
(iv)	If $\underline{v}$ is a vector for which $\underline{v}.\underline{i} = 0$, $\underline{v}.\underline{j} = 0$, $\underline{v}.\underline{k} = 0$ find $\underline{v}$.	(xii)	Calculate the projection of $\underline{a}$ along $\underline{b}$ if $\underline{a} = \underline{i} - \underline{k}$, $\underline{b} = \underline{j} + \underline{k}$
(v)	Find the angle between the vectors $\underline{u} = 2\underline{i} - \underline{j} + \underline{k}$ and $\underline{v} = -\underline{i} + \underline{j}$	(xiii)	If $\underline{u} = 2\underline{i} - \underline{j} + \underline{k}$ and $\underline{v} = 4\underline{i} + 2\underline{j} - \underline{k}$, find $\underline{u} \times \underline{v}$ and $\underline{v} \times \underline{u}$
(vi)	Find the area of $\lvert\rvert^m$, whose vertices are: $A(1,2,-1); B(4,2,-3); C(6,-5,2); D(9,-5,0)$	(xiv)	If $\underline{a} \times \underline{b} = 0$ and $\underline{a}.\underline{b} = 0$, what conclusion can be drawn about $\underline{a}$ or $\underline{b}$?
(vii)	Prove that $\underline{u}.(\underline{v} \times \underline{w}) + \underline{v}.(\underline{w} \times \underline{u}) + \underline{w}.(\underline{u} \times \underline{v}) = 3\underline{u}.(\underline{v} \times \underline{w})$	(xv)	Find the value of , so that $\alpha\underline{i} + \underline{j}, \underline{i} + \underline{j} + 3\underline{k}$ and $2\underline{i} + \underline{j} - 2\underline{k}$ are coplanar.
(viii)	Find work done by $\underline{F} = 2\underline{i} + 4\underline{j}$ if its points of application to a body moves if from $A(1,1)$ to $B(4,6)$.	(xvi)	Find the volume of tetrahedron with the vertices $A(0,1,2)$, $B(3,2,1), C(1,2,1)$ and $D(5,5,6)$.

Q. No. 3 Attempt any THREE questions. **15**

(a)	The position vectors of the points A, B, C and D are $2\underline{i} - \underline{j} + \underline{k}$, $3\underline{i} + \underline{j}$, $2\underline{i} + 4\underline{j} - 2\underline{k}$ and $-\underline{i} - 2\underline{j} + \underline{k}$ respectively. Show that $\overrightarrow{AB}$ is parallel to $\overrightarrow{CD}$
(b)	Prove that $cos(\alpha + \beta) = \beta cos\alpha sin\beta - sin\alpha cos\beta$
(c)	Prove that : $\underline{a} \times (\underline{b} + \underline{c}) + \underline{b} \times (\underline{c} + \underline{a}) = \underline{c} \times (\underline{a} + \underline{b})$
(d)	Prove that the points whose position vectors are $(-6\underline{i} + 3\underline{j} + 2\underline{k})$, $B(3\underline{i} - 2\underline{j} + 4\underline{k})$, $C(5\underline{i} + 7\underline{j} + 3\underline{k})$ and $D(-13\underline{i} + 17\underline{j} - \underline{k})$ are coplanar.

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Name: ______________		Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. ________	Section:________	2^{nd} Year Mathematics	Syllabus: Ch#01 & 05	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions
1	$x = acost$ and $y = asint$ represents the equation of (b) Hyperbola (b) Parabola (c) Ellipse (d) Circle
2	If $f(x) = 2x + 3$, $g(x) = x^2 - 1$, then $(gog)(x) =$ (a) $2x^2 - 1$ (b) $4x^2 + 4x$ (c) $4x + 3$ (d) $x^4 - 2x^2$
3	$\lim_{x\to 0}\left(\frac{e^x - 1}{x}\right) =$ (a) 0 (b) 1 (c) 2 (d) 3
4	$\lim_{x\to a}\frac{x^n - a^n}{x - a} =$ (a) na (b) na^{n-1} (c) na^2 (d) a^{n-1}
5	The function $f(x) = \frac{x^2-1}{x-1}$ is discontinuous at (a) 1 (b) 2 (c) 3 (d) 4
6	The associated equation of the linear inequality $ax + b \le c$ is (a) $ax = c$ (b) $ax + b = 0$ (c) $ax + b < c$ (d) $ax + b = c$
7	Linear inequality $2x - 7y > 3$ is satisfied by the point (a) (5,1) (b) (-5,-1) (c) (0,0) (d) (1,-1)
8	For optimal solution we evaluate the objective function at (b) Origen (b) Vertex (c) Corner Points (d) Convex points
9	$x = 0$ is in the solution of the inequality (a) $x < 0$ (b) $x + 4 < 0$ (c) $2x + 3 > 0$ (d) $2x + 3 < 0$
10	For feasible region: (b) $x \ge 0, y \ge 0$ (b) $x \ge 0, y \le 0$ (c) $x \le 0, y \ge 0$ (d) $x \le 0, y \le 0$

Q. No. 2 Write short answers to any 15 questions. **30**

(i)	Find $f(-2)$ if $f(x) = \sqrt{x+4}$	(ix)	Show that $x = acos\theta$, $y = bsin\theta$ represent the equation of ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$
(ii)	Find $fof(x)$ and $gog(x)$ if $f(x) = \sqrt{x+1}$ and $g(x) = \frac{1}{x^2}, x \ne 0$	(x)	Let $f: R \to R$ be the function defined by $f(x) = 2x + 1$. Find $f^{-1}(x)$
(iii)	Show that $\lim_{x\to 0}\frac{a^x - 1}{x} = \log_e a$	(xi)	Evaluate $\lim_{\theta\to 0}\frac{1-cosp\theta}{1-cosq\theta}$
(iv)	Find L.H.L and R.H.L when $x \to c$ if $f(x) = 2x^2 + x - 5$, $c = 1$	(xii)	Define the continuous function.
(v)	Graph the solution set of linear inequality $3x + 7y \ge 21$.	(xiii)	Graph the feasible region of $5x + 7y \le 35; x - 2y \le 4$ $x \ge 0; y \ge 0$
(vi)	Graph the feasible region of: $2x - 3y \le 6; 2x + y \ge 2$ $x \ge 0; y \ge 0$	(xiv)	Graph the feasible region of $x + y \le 5$; $-2x + y \le 0$ $x \ge 0; y \ge 0$
(vii)	Define "Feasible region".	(xv)	What is "Corresponding equation".
(viii)	Indicate the solution set of: $3x + 7y \ge 21; x - y \le 2$	(xvi)	Find measure of angle between the lines represented by $x^2 - xy - 6y^2 = 0$.

Q. No. 3 Attempt All questions. **20**

(a)	Evaluate $\lim_{\theta\to 0}\frac{tan\theta - sin\theta}{sin^3\theta}$
(b)	Discuss the continuity of $f(x)$ at 3, when $f(x) = \begin{cases} x - 1, & if\ x \le 3 \\ 2x + 1 & if\ 3 \le x \end{cases}$
(c)	**Maximize $f(x, y) = x + 3y$ subject to constraints:** $2x + 5y \le 30$; $5x + 4y \le 20$ $x \ge 0$; $y \ge 0$
(d)	Graph the following system of inequalities and find the corner points: $x + y \le 5$; $-2x + y \le 0$; $y \ge 0$

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Name: ____________	Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. ______ Section:______	2nd Year Mathematics	Syllabus: Ch#02	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.

Sr.#	Questions
1	The notation $Df(x)$ or Dy is used by (a) Leibnitz (b) Newton (c) Lagrange (d) Cauchy
2	$\frac{d}{dx}(x^n) = nx^{n-1}$ is called (a) Power rule (b) Product rule (c) Quotient rule (d) Constant
3	The derivative of $(x^3+1)^9$ $w.r.t$ 'x' is (a) $27x^2(x^3+1)^8$ (b) $27x(x^3+1)^8$ (c) $27(x^3+1)^8$ (d) $(x+1)^8$
4	If $\sqrt{x} - \frac{1}{\sqrt{x}}$ then $2x\frac{dy}{dx} + y =$ (a) $2x$ (b) $2x^3$ (c) $2\sqrt{x}$ (d) $2x^2$
5	$\frac{d}{dx} sec^{-1}x =$ (a) $\frac{1}{\lvert x\rvert\sqrt{x^2-1}}$ (b) $\frac{-1}{\lvert x\rvert\sqrt{x^2-1}}$ (c) $\frac{1}{\lvert x\rvert\sqrt{1+x^2}}$ (d) $\frac{-1}{\lvert x\rvert\sqrt{1+x^2}}$
6	If $Sin\sqrt{x}$, then $\frac{dy}{dx}$ is equal to (a) $\frac{cos\sqrt{x}}{2\sqrt{x}}$ (b) $\frac{cos\sqrt{x}}{\sqrt{x}}$ (c) $cos\sqrt{x}$ (d) $\frac{cosx}{\sqrt{x}}$
7	$log_{a^a} =$ (a)1 (b) e (c) a^2 (d) not defined
8	Value of $\frac{d^2}{dx^2}(-Cosx)$ at $x = \frac{\pi}{4}$ (a) $\frac{1}{\sqrt{2}}$ (b) $-\frac{1}{\sqrt{2}}$ (c) $\frac{1}{2}$ (d) $-\frac{1}{2}$
9	$1 - x + \frac{x^2}{2!} - \frac{x^3}{3!} + \frac{x^4}{4!} +$............. is an expression of (a) e^x (b) $Sinx$ (c) $Cosx$ (d) e^{-x}
10	A point where 1st derivative of function is zero , is called (A)Stationary point (b) corner point (c) point of concurrency (d) common point

Q. No. 2 Write short answers to any 15 questions. 30

(i)	Find the derivative of the given function by definition $2x^2+1$	(ix)	Find from first Principles , the derivative $w.r.t$ 'x' $(ax+b)^3$
(ii)	Differentiate $\frac{2x^3-3x^2+5}{x^2+1}$ $w.r.t$ 'x'	(x)	Find $\frac{dy}{dx}$ if $x = \theta + \frac{1}{\theta}, y = \theta + 1$
(iii)	Find $\frac{dy}{dx}$ by making some suitable substitution if $y = \sqrt{x+\sqrt{x}}$	(xi)	Find $\frac{dy}{dx}$ if $x = \frac{a(1-t^2)}{1+t^2}$, $y = \frac{2bt}{1+t^2}$
(iv)	If $y = \sqrt{tanx + \sqrt{tanx + \sqrt{tanx}} + \cdots\infty}$, prove that $(2y-1)\frac{dy}{dx} = sec^2x$	(xii)	Find $\frac{dy}{dx}$ if $y = a^{\sqrt{x}}$
(v)	Differentiate sin^2x $w.r.t$ cos^2x	(xiii)	Differentiate $w.r.t$ the variable involved $tan^3\theta sec^2\theta$
(vi)	Find $f'(x)$ if $f(x) = e^x(1+lnx)$	(xiv)	Find y_2 if $x = acos\theta, y = sin\theta$
(vii)	Determine the interval in which: $f(x) = Cosx$; $x \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$	(xv)	Determine the interval in which $f(x) = x^2 + 3x + 2; x \in [-4,1]$
(viii)	Find y_2 if $x^3 - y^3 = a^3$	(xvi)	Apply Maclaurin's Series expansion to prove that $e^{2x} = 1 + 2x + \frac{4x^2}{2!} + \frac{8x^3}{3!} + \cdots$

Q. No. 3 Attempt All questions. 20

(a)	Find from first principles the derivative of $\frac{1}{(az-b)^7}$
(b)	Prove that $y\frac{dy}{dx} + x = 0$ if $x = \frac{1-t^2}{1+t^2}$, $y = \frac{2t}{1+t^2}$
(c)	Differentiate $Cot^{-1}\left(\frac{x}{a}\right)$
(d)	Show that $2^{x+h} = 2x[1 + (ln2)h + (ln2)^2\frac{h^2}{2!} + (ln2)^3\frac{h^3}{3!} + \cdots$

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Roll#. ______ Section: ______	2nd Year Mathematics	Syllabus: Ch#03	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.

Sr.#	Questions
1	**Differentials are used to find:** (a) Approximate value (b) exact value (c) Both (a) and (b) (d) None of these
2	**If $n \neq 1$, then $\int (ax+b)^n dx =$** (a) $\frac{n(ax+b)^{n-1}}{a}+c$ (b) $\frac{n(ax+b)^{n+1}}{n}+c$ (c) $\frac{(ax+b)^{n-1}}{n+1}+c$ (d) $\frac{(ax+b)^{n+1}}{a(n+1)}+c$
3	**In $\int (x^2-a^2)^{\frac{1}{2}} dx$, the substitution is** (a) $x = atan\theta$ (b) $x = asec\theta$ (c) $x = asin\theta$ (d) $x = 2asin\theta$
4	$\int e^x[sinx+cos]dx =$ (a) $e^x sinx + c$ (b) $e^x cos + c$ (c) $-e^x sinx + c$ (d) $-e^x cosx + c$
5	$\int_a^a f(x) =$ (a) 0 (b) $\int_b^a f(x)dx$ (c) $\int_b^a f(x)dx$ (d) $\int_a^a f(x)dx$
6	**The general solution of differential equation $\frac{dy}{dx} = -\frac{y}{x}$ is** (a) $\frac{x}{y} = c$ (b) $\frac{y}{x} = c$ (c) $xy = c$ (d) $x^2y^2 = c$
7	**Solution of differential equation $\frac{dv}{dt} = 2t - 7$ is :** (b) $v = t^2 - 7t^3 + c$ (b) $v = t^2 + 7t + c$ (c) $v = t - \frac{7t^2}{2} + c$ (d) $v = t^2 - 7t + c$
8	**A differential equation having order _____ is called a second order differential equation.** (a)One (b) three (c) four (d) two
9	$\int_0^{-\pi} sinxdx$ **equals to:** (b) -2 (b) 0 (c) 2 (d) 1
10	$\int e^x\left[\frac{1}{x} - \frac{1}{x^2}\right] =$ (a) $e^x \frac{1}{x} + c$ (b) $-e^x \frac{1}{x} + c$ (c) $e^x lnx + c$ (d) $-e^x \frac{1}{x^2} + c$

Q. No. 2	Write short answers to any 15 questions.		30
(i)	Find δy and dy if $y = x^2 + 2x$ when x changes from 2 to 1.8	(ix)	Evaluate $\int \frac{1-x^2}{1+x^2}dx$
(ii)	Evaluate $\int \sqrt{1-cos2x}\, dx$	(x)	Evaluate $\int \frac{sec^2x}{\sqrt{tanx}}dx$
(iii)	Evaluate $\int \frac{1}{(1+x^2)Tan^{-1}x}dx$	(xi)	Evaluate $\int \frac{xSin^{-1}x}{\sqrt{1-x^2}}dx$
(iv)	Evaluate $\int \frac{(a-b)x}{(x-a)(x-b)}dx$	(xii)	Evaluate $\int xTan^{-1}x\, dx$
(v)	**Evaluate** $\int_1^2 lnxdx$	(xiii)	**Evaluate** $\int_{-2}^{1} \frac{1}{(2x-1)^2}dx$
(vi)	Solve $secx + tany\frac{dy}{dx} = 0$	(xiv)	Solve $1 + cosx\, tany\frac{dy}{dx} = 0$
(vii)	Solve $\frac{1}{x}\frac{dy}{dx} - 2y = 0$	(xv)	Solve $(e^x + e^{-x})\frac{dy}{dx} = e^x - e^{-x}$
(viii)	Solve $\frac{dy}{dx} = \frac{y^2+1}{e^{-x}}$	(xvi)	**Evaluate** $\int_0^2 (e^{\frac{x}{2}} - e^{-\frac{x}{2}})dx$

Q. No. 3	Attempt All questions.	20
(a)	**Evaluate** $\int \frac{2x^2}{(x-1)^2(2x+3)}dx$	
(b)	Show that $\int \sqrt{a^2-x^2}dx = \frac{a^2}{2}Sin^{-1}\frac{x}{2} + \frac{x}{2}\sqrt{a^2-x^2} + c$	
(c)	Evaluate $\int_{\frac{\pi}{6}}^{\frac{\pi}{4}} cos^2\theta cot^2\theta d\theta$	
(d)	Find the general solution of the equation $\frac{dy}{dx} - x = xy^2$. Also find the particular solution if $y = 1$ when $x = 0$	

Name: ____________		Grand Test Series [2022-23]	Time: 120 Mints	Marks: ____ / 60
Roll#. ______	Section:______	2nd Year Mathematics	Syllabus: Ch#04 , 06 & 07	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions
1	**If x and y have opposite signs then the point $P(x, y)$ lies the quadrants** (a) I & II (b) I & III (c) II & IV (d) I & IV
2	**The Normal form of the equation of the straight line is** (a) $y = mx + c$ (b) $y - y_1 = m(x - x_1)$ (c) $\frac{x}{a} + \frac{y}{b} = 1$ (d) $xcos\alpha + ycos\alpha = p$
3	**If the equations of the sides of a triangle are given then the intersection of any two lines in pairs gives ________ the triangles.** (a) Vertices (b) centre (c) mid-points of sides (d) centriod
4	**If φ be an acute angle between two lines l_1 and l_2 when slopes m_1 and m_2, then acute angle from l_1 to l_2** (a) $\lvert tan\varphi = \frac{m_1 - m_2}{1 + m_1 m_2}\rvert$ (b) $\lvert tan\varphi = \frac{m_2 - m_1}{1 + m_2 m_1}\rvert$ (c) $\lvert tan\varphi = \frac{m_1 + m_2}{1 + m_1 m_2}\rvert$ (d) $\lvert tan\varphi = \frac{m_2 + m_1}{1 + m_1 m_2}\rvert$
5	**The equation $10x^2 - 23xy - 5y^2 = 0$ is homogeneous of degree** (a) 1 (b) 2 (c) 3 (d) more than 2
6	**The equation $x^2 + y^2 + 2gx + 2fy + c = 0$ represents the circle with centre** (b) (g, f) (b) $(-g, -f)$ (c) $(-f, -g)$ (d) $(g, -f)$
7	**Eccentricity of the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ is** $(a)\,\frac{a}{c}$ (b) ac (c) $\frac{c}{a}$ (d) None of these
8	**In any ΔABC , the law of cosine is** (a) $a^2 = b^2 + c^2 - 2bcCosA$ (b) $a = bCosC + cCosB$ (c) $a.b = 0$ (d) $a - b = 0$
9	**Two non zero vectors are perpendicular iff** $(a)\underline{u}.\underline{v} = 1$ (b) $\underline{u}.\underline{v} \neq 1$ (c) $\underline{u}.\underline{v} \neq 0$ (d) $\underline{u}.\underline{v} = 0$
10	**Moment of a force $\underline{F}$ about a point is given by:** (a)Dot product (b) cross product (c) both (a) and (b) (d) None of these

Q. No. 2 Write short answers to any 15 questions. **30**

(i)	Find the mid-point of the line segment joining the vertices $A(-8,3), B(2,-1)$.	(ix)	Find the slope and inclination of the line joining the points $(-2,4); (5,11)$
(ii)	Describe the location in the plane of point $P(x, y)$ for whcih $x = y$.	(x)	Find k so that the line joining $A(7,3); B(k,-6)$ and the line joining $C(-4,5); D(-6,4)$ are perpendicular
(iii)	Find an equation of the line bisecting the I and III quadrants.	(xi)	Find the angle from the line with slope $-\frac{7}{3}$ to the line with slope $\frac{5}{2}$.
(iv)	Find an equation of each of the lines represented by $20x^2 + 17xy - 24y^2 = 0$	(xii)	Find the centre and radius of the circle of $x^2 + y^2 + 12x - 10y = 0$
(v)	The point of a parabola which is closest to the focus is the vertex of the parabola.	(xiii)	Find the points of intersection of the ellipse $\frac{x^2}{\frac{43}{3}} + \frac{y^2}{\frac{43}{4}} = 1$ and the hyperbola $\frac{x^2}{7} - \frac{y^2}{14} = 1$
(vi)	Find the equation of hyperbola with given data : Foci $(\pm 5,0)$, vertex $(3,0)$	(xiv)	If $\underline{a} + \underline{b} + \underline{c} = 0$, then prove that $\underline{a} \times \underline{b} = \underline{b} \times \underline{c} = \underline{c} \times \underline{a}$
(vii)	A force $\underline{F} = 7\underline{i} + 4\underline{j} - 3\underline{k}$ is applied at $P(1,-2,3)$. Find its moment about the point $Q(2,1,1)$.	(xv)	Prove that the vectors $\underline{i} - 2\underline{j} + \underline{k}, -2\underline{i} + 3\underline{j} - 4\underline{k}$ and $\underline{i} - 3\underline{j} + 5\underline{k}$ are coplanar.
(viii)	Find the value of $2\underline{i} \times 2\underline{j}.\underline{k}$ and $[k \;\; i \;\; j]$	(xvi)	Prove that $\underline{u}.(\underline{v} \times \underline{w}) + \underline{v}.(\underline{w} \times \underline{u}) + \underline{w}.(\underline{u} \times \underline{v}) = 3\underline{u}.(\underline{v} \times \underline{w})$

Q. No. 3 Attempt All questions. **20**

(a)	Find a join equation of the lines through the origin and perpendicular to the lines: $x^2 - 2xytan\alpha - y^2 = 0$
(b)	Find the points of intersection of the given conics $4x^2 + y^2 = 16$ and $x^2 + y^2 + y + 8 = 0$
(c)	Prove that : $sin(\alpha - \beta) = sin\alpha cos\beta - cos\alpha sin\beta$
(d)	Prove that the altitudes of a triangle are concurrent.

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Roll#. ________	Section:________	2nd Year Biology	Syllabus: Ch#15	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	The more concentrated external environment is termed as:	Hypotonic	Hypertonic	Isotonic	Osmotic
2	The category of plants that has adaptation of small and thick leaves to limit water loss is called:	Hydrophytes	Xerophytes	Mesophytes	Aygrophytes
3	Which part of the plant body serves as excretophores?	Root	Stem	Leaves	Flowers
4	1 g of ammonia nitrogen requires how much water for excretion?	50 ml	100 ml	250 ml	500 ml
5	Animals of the group of flatworms have simple tubular excretory system called as:	Kidney	Nephron	Nephridia	Protonephridia
6	The absorption of sodium in the ascending limb of the loop of Henle is controlled by a hormone known as:	Antidiuretic	Aldosterone	Progesterone	Testosterone
7	The central station of metabolism and the body's central metabolic clearing agent is:	Stomach	Liver	Kidneys	Gut
8	The incidence of calcium oxalate type stones of kidney are:	40%	50%	60%	70%
9	Saliva and urine are used for evaporative cooling by:	Bat	Dogs	Birds	Seals
10	The body temperature regulation in human is based on complex homeostatic thermostat present in the:	Cerebrum	Medulla oblongata	Hypothalamus	Thalamus

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	What do you mean by homeostasis? Give components of Homeostatic control system.	(ix)	What are flame cells and why are these called so?
(ii)	Differentiate between hypotonic and hypertonic environment.	(x)	Briefly describe urea cycle.
(iii)	What are hydrophytes? What are their important adaptations?	(xi)	What is glomerular filterate?
(iv)	Differentiate between osmocon formers and osmo regulators.	(xii)	What is lithotripsy?
(v)	Define anhydrobiosis with an example.	(xiii)	Differentiate between endotherms and ectotherms.
(vi)	Differentiate between excretophore and ebony.	(xiv)	Define panting.
(vii)	What is difference between ureotelic and uricotelic animals?	(xv)	Differentiate between shivering and non-shivering thermogenests.
(viii)	Differentiate between protonephridium and metanephridium.	(xvi)	What do you mean by pyrexia and pyrogens?

Q. No. 3 Attempt any THREE questions. **12**

(a) Explain excretion in plants.

(b) Give four major homeostatic functions of liver.

(c) Describe the structure and function of nephron.

(d) Describe the adaptations in plants to low and high temperature.

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Roll#. ________ Section:________	2nd Year Biology	Syllabus: Ch#16	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Turgor pressure is generated by high osmotic pressure of the cell.	Cytoplasm	Vacuole	Mitochondria	Chloroplast
2	The membrane that bounds vacuole is called:	tonoplast	leucoplast	Chromoplast	Chloroplast
3	These are shorter than fibers and are found in seed coat and nut shell to provide protection:	Tracheids	Sclereides	Vessels	Trachea
4	Angular thickenings in their primary walls are present in:	Parenchyma	Collenchyma	MesophyII	Vessels
5	Movement shown by sperms of liver worts, mosses, ferns towards archegonia is a:	Chemotactic movement	Phototactic movement	Chenitropic movement	Phototropic movement
6	Mature bone cells are called as:	Osteoblasts	Osteocytes	Osteoclasts	Chondrocytes
7	Which one is not a bone of axial skeleton?	Ribs	Sternum	Pelvic	Cranium
8	A disease which causes immobility and fusion of vertebral joint is called?	Sciatica	Spondylosis	Rickets	Disc slip
9	Most efficient way of supporting body is seen in:	Fishes	Aves	Reptiles	Mammals
10	Which end of muscle remains fixed when the muscle contracts?	Insertion	Origin	Tendon	Belly

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	Differentiate between collenchyma and sclerenchyma cells.	(ix)	Differentiate between hyaline and elastic cartilage.
(ii)	Differentiate between fibers and sclereides.	(x)	What is difference between axial skeleton and appendicular skeleton?
(iii)	Differentiate between heartwood and sapwood.	(xi)	Differentiate between tendons and ligament.
(iv)	Differentiate between epinasty and hyponasty.	(xii)	Compare hinge joint with ball and socket joint.
(v)	Differentiate between photonasty and thermonasty.	(xiii)	Explain briefly hematoma formations.
(vi)	Give composition of exoskeleton in Mollusca and arthropods.	(xiv)	What is rigor mortis? Give its cause.
(vii)	Define ecdysis and how it is controlled?	(xv)	What is muscle fatigue? How is it produced?
(viii)	Write down any two major function of skeletal system.	(xvi)	Differentiate between effective and recovery stroke.

Q. No. 3 Attempt any THREE questions. **12**

(a)	Give an account of paratonic movements in plants.
(b)	What are joints? Explain their their types.
(c)	What is bone fracture? Explain the repair process of a simple fracture.
(d)	Give a detailed note on sliding filament model of muscle contraction.

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Roll#. ______ Section:______	2nd Year Biology	Syllabus: Ch#17	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Nociceptors produce produce sensation of:	Touch	Warmth and cold	Smell	Pain
2	Resting membrane potential of a neuron is:	50 mv	-60 mv	-70 mv	-80 mv
3	The largest part of brain is:	Cerebrum	Medulla	Cerebrum	Thalamus
4	The structure in human brain which control hunger is:	Amygdala	Hippocampus	Thalamus	Hypothalamus
5	The number of spinal nerve in man is:	24	62	12	31
6	The onset of epilepsy is usually before age of:	10 years	20 years	30 years	40 years
7	Excess thyroxine produces a disease called:	Addison's	Cretinism	Graves	Epilepsy
8	Aldosterone is involved in:	Transport of potassium ions into kidneys	Uptake of sodium in loop of Henle	Transport of water	Reabsorption of water
9	The hormone which suppress ovulation is:	Testosterone	Oestrogen	Progesterone	Gastrin
10	The simplest form of learning behaviour is:	Imprinting	Habituation	Insight learning	Latent learning

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	What are etiolation and chlorosis?	(ix)	Define effectors. Give their types.
(ii)	Differentiate between diurnal rhythms and circannual rhythms?	(x)	Define reflex action and reflex arc.
(iii)	Define biorhythm. Give its types.	(xi)	Define resting membrane potential. Give its value.
(iv)	Give uses of 2, 4- Dichlorophenoxyacetic acid.	(xii)	What are neurotransmitters? Give their various types.
(v)	Write down the commercial applications of gibberellins.	(xiii)	Differentiate between sympathetic and parasympathetic system.
(vi)	Give the commercial application of ethane.	(xiv)	What do you know about epilepsy?
(vii)	Differentiate between chemoreceptors and mechanoreceptors.	(xv)	Describe action of nicotine on coordination in animals.
(viii)	Differentiate between nerves and ganglia.	(xvi)	Define feedback mechanism.

Q. No. 3 Attempt any THREE questions. **12**

(a) What are receptors? Classify and explain each class.

(b) Nervous system of hydra is better developed then that of planaria. Discuss.

(c) Explain secretions and their role of anterior lobe of pituitary gland.

(d) Describe feedback mechanism with example.

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Roll#. _______	Section:_______	2nd Year Biology	Syllabus: Ch#18	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Reproduction is necessary for the survival of:	Individual	Species	Community	Biome
2	Parthenocarpy is sometimes artificially induced in tomato, peppers etc, by adding:	Abscisic acid	Cytokinin	Auxin	Gibberellins
3	Fruit ripening is often accompanied by burst of respiratory activity called:	Apomixis	Climacteric	Photoperiodism	Endosperms
4	Photoperiod affects flowering when shoot meristems start producing:	Floral buds	Leaves	Lateral buds	Branches
5	In honey bee, males are haploid and produce sperms by:	Mitosis	Meiosis	Apomixis	Parthenogenesis
6	The hormone responsible for production of sperm cells and male secondary sexual characteristics during puberty is:	Progesterone	Testosterone	Thyroxin	Estrogen
7	Between the seminiferous tubules are interstitial cell, which secrete:	Estrogen	Testosterone	Aldosterone	Corticosteroids
8	The release of ovum from the ovary is called:	Ovulation	Menstruation	Follicle atresia	Menace
9	Labour pains are induced by a hormone:	ACTH	Progesterone	Corticosteroid	Oxytocin
10	Average loss of blood during birth in human female is about:	$150cm^3$	$250cm^3$	$350cm^3$	$450cm^3$

Q. No. 2 Write short answers to any 14 questions. — 28

(i)	Give some advantages and disadvantages of cloning.	(ix)	Define seed dormancy, write its significance.
(ii)	Define parthenocarpy with examples.	(x)	Define Fruit set.
(iii)	Define photoperiodism.	(xi)	Define vernalization. Discuss its important in plants.
(iv)	What are Apomixis?	(xii)	Differentiate between identical twins and fraternal twins.
(v)	Differentiate between oviparous and viviparous animals.	(xiii)	Give the function of sertoli cells.
(vi)	Differentiate between menstrual cycle and oestrous cycle.	(xiv)	What is menupause? At what age it starts?
(vii)	What is menstrual cycle?	(xv)	Define follicle atresia.
(viii)	Differentiate between lactation and gestation.	(xvi)	What is Genital Herpes?

Q. No. 3 Attempt any THREE questions. — 12

(a) Write a note on "Fruit set" and "Fruit Ripening".

(b) Compare the asexual reproduction with sexual reproduction.

(c) Describe briefly about "Tissue culturing and cloning"

(d) What structure are associated with the human female reproductive system?

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Name: ____________	Grand Test Series [*2022-23*]	Time: 90 Mints	Marks: ____ / 50
Roll#. ______ Section: ______	2nd Year Biology	Syllabus: Ch#19	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Young tissue retaining the potential to divide:	Meristem	Xylem	Phloem	Cork
2	Primary growth in plants is caused by:	Apical meristem	Lateral meristem	Intercalary meristem	Bib meristem
3	In the zone of elongation; the volume of the cells increase upto:	100 times	150 times	200 times	250 times
4	For maximum growth, optimum temperature is:	$0 – 35^0C$	$5 – 10^0C$	$25 – 30^0C$	$35 – 40^0C$
5	The shell, over chick egg is secreted as it passes through:	Ovary	Oviduct	Uterus	Cloaca
6	Movements and rearrangements of the cells in the embryo is called:	Cleavage	Gastrulation	Organogenesis	Fertilization
7	Grey equatorial cytoplasm gives rise to:	Notochord and neural tube	Muscle cells and guts	Skeleton and muscles	Neural tube
8	Gray vegetal cytoplasm gives rise to:	Gut	Muscle cells	Larval epidermis	Notochord
9	The negative physiological changes in our body are said to be:	Maturation	Childhood	Aging	Death
10	Environmental factors causing abnormal development are grouped together as:	Toxins	Carcinogens	Mutagens	Teratogens

Q. No. 2 Write short answers to any 14 questions. 28

(i)	Differentiate between growth and development.	(ix)	Write different types of plants meristems.
(ii)	Differentiate between primary growth and secondary growth.	(x)	Define differentiation and maturation.
(iii)	What is apical dominance? Also give the cause of apical dominance.	(xi)	Enlist key events in animals development.
(iv)	What is discoidal cleavage?	(xii)	Differentiate between epiblast and hypoblast.
(v)	Differentiate between area pellucida and area opaca.	(xiii)	Differentiate between splanchnic and somatic mesoderm.
(vi)	Differentiate between neurula and neurocoel.	(xiv)	Define embryonic induction and gray crescent.
(vii)	Define aging? Write four symptoms of aging.	(xv)	Differentiate between gerontology and teratology.
(viii)	What is neoblasts?	(xvi)	Differentiate between teratology and teratogens.

Q. No. 3 Attempt any THREE questions. 12

(a) Define and explain growth correlations?

(b) Describe the role of nucleus in development?

(c) What is regeneration? Explain it which the help of examples in different groups of animals?

(d) Write a brief note on abnormal development?

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01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Walther Fleming first discovered chromosome in the dividing cells of:	Frog larvae	Sea urchin larvae	Insect larvae	Salamander larvae
2	The particular array of chromosomes that an individual process is called its:	Genotype	Phenotype	Karyotype	Metacentric
3	The highly condensed portion of a chromatic is called:	Heterochromatin	Euchromtin	Nucleosome	Centromere
4	In E.coli the true replicating enzyme is:	DNA polymerase-I	DNA polymerase-II	DNA polymerase-III	DNA polymerase-IV
5	In 1953 , F.Sanger described the sequence of amino acids of:	Myoglobin	Keratin	Insulin	Globulin
6	The copping of mRNA from DNA is called:	Translation	Transduction	Transformation	Transcription
7	Which of the following is a "start" codon?	AUG	UAA	UAG	UGA
8	Every gene starts with initiation codon AUG which encodes for the amino acid	Lysine	Serine	Proline	Methionine
9	Transfer of genetic material from one cell to other that can alter the genetic make-up of recipient is called:	Transformation	Translation	Transcription	Replication
10	In sickle cell anemia code for glutamic acid is replaced by:	Leucine	Histidine	Valine	Proline

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	Differentiate between chromosome and nucleosome.	(ix)	What is karyotype? Give its importance
(ii)	Define Euchromatin?	(x)	What is heterochromatin and euchromatin?
(iii)	What do you know about nucleosome?	(xi)	What is transformation? In which bacterium it was discovered?
(iv)	Differentiate between pyrimidines and purines?	(xii)	What are the contribution of P.A. Levene for determining the structure?
(v)	What is semi-conservation replication?	(xiii)	Differentiate between leading and lagging strands?
(vi)	Give structure and function of DNA polymerase III?	(xiv)	What is one gene / one enzyme hypothesis?
(vii)	What is promoter? Which binding sites are present in this region?	(xv)	Define central dogma and name its two steps?
(viii)	Describe three types of RNA?	(xvi)	Differentiate between codon and anticodon?

Q. No. 3 Attempt any THREE questions. **12**

(a)	Discuss Watson and Crick's model of DNA?
(b)	How did Meselson and stahl show that DNA replication is semi conservation?
(c)	Describe different types of RNA with their function?
(d)	Define genetic code? Write a comprehensive note on genetic code?

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Roll#. ______ Section: ______	2nd Year Biology	Syllabus: Ch#21	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	The period of life cycle of between two consecution divisions is termed as:	Resting phase	interphase	G1 phase	G2 phase
2	Full cycle in yeast cells has length of:	30 minutes	60 minutes	90 minutes	120 minutes
3	DNA synthesis and chromosomal doubling occurs in:	G1 – phase	G2 – phase	G0 – phase	S – phase
4	Karyokinesis involves division of:	Cell	Nucleus	Cytoplasm	Cell membrane
5	During cell division, the nuclear division is called:	Cytokinesis	Karyokinesis	Karyotype	Plasmolysis
6	The microtubule is composed of traces of RNA and protein called:	Myosin	Troponin	Actin	Tubulin
7	The most critical phase of mitosis, which ensure equal distribution of chromatids in the daughter cell is:	Anaphase	Metaphase	Prophase	Telophase
8	For the formation of phragmoplast, the vesicles originate from:	Endoplasmic reticulum	Golgi complex	Chloroplast	Mitochondria
9	In which stage of meiosis, the paired chromosomes repel each other and begin to separate?	Leptotene	Zygotene	Diplotene	Pacytene
10	Cell death due to tissue damage is called:	Apoptosis	Metastasis	Necrosis	Suicide

Q. No. 2 Write short answers to any 15 questions. 30

(i)	Describe cell cycle? Give to phase.	(ix)	Differentiate between karyokinesis and cytokinesis
(ii)	Define meiosis and mitosis?	(x)	What is mitotic apparatus and what is its role during cell division?
(iii)	How cytokinesis occurs in plants and animals cells?	(xi)	Define metastasis?
(iv)	Differentiate between benign and malignant tumors?	(xii)	Define crossing over?
(v)	Differentiate between diplotene and diakinesis?	(xiii)	Highlights the importance of meiosis?
(vi)	What is non-disjunction? Give effects?	(xiv)	Describe cause and symptoms of Down's syndrome?
(vii)	What is a Turner's syndrome? Write briefly.	(xv)	Differentiate between necrosis and apoptosis?
(viii)	What is mitosis? Give its two significances?	(xvi)	Compare kinetochore microtubule and polar microtubules.

Q. No. 3 Attempt all questions. 10

(a) Write a note on cancer?

(b) Describe prophase-I of meiosis in detail?

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Roll#. ______ Section: ______	2nd Year Biology	Syllabus: Ch#22	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	The position of gene on chromosome is called its:	Allele	Phenotype	Locus	Genotype
2	The cross which is used to find out the homozygous or heterozygous nature of genotype is called:	Test cross	Reciprocal cross	Monohybrid cross	Dihybridcross
3	Different alleles of a gene that are both expressed in a heterozygous condition are called:	Codominance	Over dominance	Complete dominance	Incomplete dominance
4	MN blood group is example of:	Complete dominance	Codominance	Incomplete dominance	Over dominance
5	A person having neigher antigen A nor B would have blood group:	O	A	B	AB
6	The individuals called universal recipients have______:	A blood group	B blood group	O blood group	AB blood group
7	Secretors have dominant secretor gene "Se" on chromosomes	09	19	21	24
8	A gamete without any sex chromosomes is called:	Monoecious	Dioecious	Triecious	Polyecious
9	Hypophosphatemic rickets in an X-linked:	Dominant trait	Recessive trait	Codominant trait	Over dominant trait
10	Haemophilia is:	Monochromacy	Dichromacy	Trichromacy	Tetrachromacy

Q. No. 2 Write short answers to any 14 questions. 28

(i)	Differentiate between gene and allele?	(ix)	Compare monohybrids and dihybrids.
(ii)	Differentiate between homozygous and heterozygous	(x)	What is test cross? Give its significance?
(iii)	Define probability? What is product rule?	(xi)	State law of independent assortment?
(iv)	Differentiate between complete and over dominance?	(xii)	What is meant by incomplete dominance?
(v)	Differentiate between alleles and multiple alleles?	(xiii)	What is Bombay phenotype?
(vi)	What is pleiotropy? Give two examples?	(xiv)	What is polygenes and polygenic traits?
(vii)	Differentiate between gene linkage and crossing over?	(xv)	What are pseudoautosomal genes?
(viii)	What is testicular feminization syndrome?	(xvi)	What is sex-limited trait? Give an example.

Q. No. 3 Attempt any THREE questions. 12

(a) Define and explain test cross. Also give its significance?

(b) Define and explain incomplete dominance with example?

(c) Define erythroblastosis foetalis. Explain maternal foetal Rh-incompatibility?

(d) Discuss the genetics of Colour Blindness?

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Recite 3 Times "DAROOD O SALAM" [0300-7980055]

Name: ______________	Grand Test Series [2022-23]	Time: 90 Mints	Marks: ____ / 40
Roll#. ______ Section:______	2nd Year Biology	Syllabus: Ch#23	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	The enzymes which are used to cut out the gene of interest are known as:	DNA ligase	DNA polymerase	RNA polymerase	Restriction endonuclease
2	Recombinant DNA is introduced into the host cell by means of a:	Vector	Phage	Bacterium	Fungus
3	The enzymes which joins the two pieces of DNA is:	DNA polymerase-1	DNA ligase	Restriction	Endonuclease
4	A full set of an individual is called:	Genome	Genotype	Karyotype	Dominance
5	The genome fragment can be separated according to their length during	Gel electrophoresis	PCR	Cloning	Gene therapy
6	Organisms that had a foreign gene inserted into them are called:	Transgenic organisms	Hermaphrodites	Polygenesis	transmuted organisms
7	Urine is preferable vehicle for a biotechnology product than:	Milk	Blood	Plasma	Tissue fluid
8	Cystic fibrosis patients lack a gene that codes for Trans – membrane carrier of:	Chloride	Sodium ion`	Calcium ion	Magnesium ion
9	Patients of cystic fibrosis often die due to numerous infections of the:	Respiratory tract	Excretory tract	Digestive tract	Reproductive tract
10	The enzymes luciferase is produced by an insect commonly known as:	House fly	Butterfly	Caddis fly	Fire fly

Q. No. 2 Write short answers to any 15 questions. 30

(i)	What is genetic engineering?	(ix)	What are restriction enzymes? Give its one function. Give example.
(ii)	Define palindromic sequence and sticky ends?	(x)	What are plasmids? How were they discovered? Give example?
(iii)	What is probe? Give its uses?	(xi)	What is genomic library?
(iv)	Give two practical uses of DNA printing technology.	(xii)	What are primary goals of human genome project?
(v)	What are transgenic organisms?	(xiii)	Why urine is preferred to isolate biotechnology products then milk?
(vi)	How cancer patients are being treated by gene therapy?	(xiv)	Differentiate between Ex-vivo and In-vivo gene therapy
(vii)	How hypercholesterolemia can be cured by gene therapy?	(xv)	What is cystic fibrosis?
(viii)	What are totipotent cells in plants?	(xvi)	Name salt tolerant plants and its role in futue?

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Name: ____________	Grand Test Series [2022-23]	Time: 90 Mints	Marks: ____ / 50
Roll#. ________ Section:________	2nd Year Biology	Syllabus: Ch#24	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	Essay on the principle of population was published by:	Darwin	Wallace	Linnaens	Malthus
2	Archaeobacteria can tolerate temperature upto:	120^0C	140^0C	160^0C	180^0C
3	Darwin's "origin of species" was published in:	1840	1859	1865	1890
4	Armadillos, the armored mammals live only in_______:	Africa	America	Europe	Asia
5	Which of the following is vestigial organ of whale?	Pelvis	Leg bones	Lungs	Pelvis and bones
6	Which respiratory protein is found in all aerobic species?	Glial cell line	Cytochromc	Serine	Cysteine
7	The change in frequency of alleles at locus that occur by chance is called:	Mutation	Migration	Genetic drift	Selection
8	Endangered species of plants have been recorded to be more than:	300	400	500	600
9	The main reason for extinction of species is:	Population	Over population	Habitat destruction	Parasitism
10	Species which in imminent danger of extinction throughout its rang is called:	Scare Species	Threatened Species	Rare Species	Endangered Species

Q. No. 2 Write short answers to any 14 questions. **28**

(i)	Define theory of special creation. Who proposed it?	(ix)	Define genetic drift and hydrothermal vents?
(ii)	What is endosymbiont hypothesis?	(x)	Give the steps involved in membrane invagination hypothesis?
(iii)	What do you meant by descent with modification?	(xi)	Differentiate between homologous and analogous organs?
(iv)	What are vestigial organs? Name some important vestigial of man?	(xii)	How molecular biology provides an evidence of evolution?
(v)	How artificial selection is different from natural selection?	(xiii)	Define Hardy – Weinberg theorem. Give its formula?
(vi)	Name any four factors affection gene frequency?	(xiv)	Define genetic drifts and give its effects?
(vii)	Write down the measures for the preservation of endangered species?	(xv)	Name any four species declared extinct in Pakistan?
(viii)	Differentiate between endangered and threated species?	(xvi)	What are endangered species? Give two examples from Pakistan?

Q. No. 3 Attempt any THREE questions. **12**

(a)	Write down the main points of theory of natural selection?
(b)	Describe comparative embryology and molecular biology an evidence of evolution?
(c)	State Hardy – Weinberg theorem. Discuss any two factors affecting gene frequency?
(d)	What are endangered species? What measures could be adopted for their environment?

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Name: ____________		Grand Test Series [*2022-23*]	Time: 90 Mints	Marks: ____ / 50
Roll#. ______	Section:______	2nd Year Biology	Syllabus: Ch#25	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	Any group of interbreeding of the same species that exist together in both time and space is called:	Gene pool	Population	True breeders	Multiple alleles
2	The actual location of place, where an organism lives is called its:	Niche	Environment	Habitat	Ecosystem
3	In 1971, term niche was first proposed by American ornithologist named:	Charles Eltarf	Joseph Grinnell	Ernst Haeckel	Lamarck
4	Lithosphere includes:	Earth soil	Air	Water	Gases
5	The animal that is caught and eaten is called:	Predator	Prey	Host	Parasite
6	Disease in living organisms caused by parasites are called:	Infestation	Endoparasites	Disinfestation	Ectoparasites
7	Lichens are an example of:	Parasitism	Mutualism	Predation	Commensalism
8	The remoras benefit from this relationship the shark is not affected at all:	Symbiosis	Mycorrhiza	Mutualism	Commensalism
9	The total energy of the sun, trapped by the producer in an ecosystem is about:	20%	10%	05%	01%
10	When bacteria in soil oxidize ammonia or ammonium ion, it is called:	Oxidation	Denitrification	Ammonification	Nitrification

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Q. No. 2	Write short answers to any 14 questions.		28
(i)	Define ecosystem	(ix)	Differentiate between population and community?
(ii)	Define biosphere and ecosystem?	(x)	Define biosphere and niche?
(iii)	Differentiate between synecology and autecology?	(xi)	Write a note on component in ecosystem?
(iv)	Define food chain and food web?	(xii)	What is succession? Name its types?
(v)	Differentiate between hydrosere and xerosere?	(xiii)	Differentiate between predation and parasitism?
(vi)	Differentiate between ectoparasite and endoparasite?	(xiv)	What is symbiosis? Give one example?
(vii)	What is root nodules?	(xv)	What is mutualism? Give example?
(viii)	Define grazing? What are effects of overgrazing?	(xvi)	Describe effect of moderate grazing?

Q. No. 3	Attempt any THREE questions.	12
(a)	Define ecosystem. Describe various components of an ecosystem?	
(b)	What is a food web? How it is constructed to show various trophic levels?	
(c)	Define biochemical cycle. Explain nitrogen cycle with the help of diagram.	
(d)	How does energy flow in a food chain of an ecosystem, Discuss.	

Name: ________________________	Grand Test Series [*2022-23*]	Time: 90 Mints	Marks: ____ / 40
Roll#. ________ Section:________	2nd Year Biology	Syllabus: Ch#26	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Q. No. 1 **You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question.**

Sr.#	Questions	A	B	C	D
1	In aquatic ecosystem, near shore zone is called:	Littoral zone	Limnetic zone	Profundal zone	Benthic zone
2	The average rainfall in temperate deciduous forest is between:	600-1500mm	6500-1500mm	700-1500mm	750-1500mm
3	The Macaca mulatta is biological name for:	Black bear	Cat	Deer	Rhesus monkey
4	Coniferous forest located at high latitude are called:	Alpine	Boreal	Taiga	Prairies
5	Northern coniferous forest are called:	Alpine	Boreal	Taiga	Prairies
6	Coniferous forest located at high altitude are called:	Alpine	Boreal	Taiga	Prairies
7	Grassland ecosystem in Pakistan in found in:	Chilas	Chitral	Dir	Swat
8	The biomes which has been increased in area by human activities:	Grassland	Tundra	Desert	Coniferous forests
9	Desert ecosystem of Bhakkar and Mianwali is called:	Thar	Thal	Cholistan	Rohi
10	Which of the following is the most fragile ecosystem?	Grass land	Wood land	Savanna	Tundra

Q. No. 2	**Write short answers to any 15 questions.**		**30**
(i)	Define weather and climate?	**(ix)**	What is productivity of an ecosystem?
(ii)	Compare littoral zone in lake ecosystem?	**(x)**	Differentiate between phytoplanktons and zooplanktons
(iii)	What is profundal zone? Give its one character?	**(xi)**	Give two factors which influence life in land?
(iv)	Give adaptation in organisms for terrestrial ecosystem?	**(xii)**	Enlist ecosystem in Pakistan?
(v)	How temperate deciduous forests were affected by human Impact?	**(xiii)**	Differentiate between coniferous alpine and boreal forests?
(vi)	What do you meant by taiga? Give conditions of taiga?	**(xiv)**	Differentiate between praries and savanna?
(vii)	Give productivity in subhumid tropical grassland?	**(xv)**	What is desertification? Give an example?
(viii)	What is human impact on tundra ecosystem?	**(xvi)**	What is tundra? Where is it found in Pakistan?

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Roll#. ______ Section: ______	2nd Year Biology	Syllabus: Ch#27	

01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

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Sr.#	Questions	A	B	C	D
1	A treasure of all types of resources essential to maintain life on earth:	Environment	Water	Land	Sun
2	Total area of the world under cultivation is:	09%	10%	11%	12%
3	Study of human population and the things that affect them, is called:	Human biology	Sociobiology	Demography	Teratology
4	Establishment of new forests, where no forests existed before is called:	Deforestation	Desertification	Reforestation	Afforestation
5	Which of the following act as environment buffer?	Desert	Grassland	Community	Forest
6	The atmosphere gas that behaves like glass sheet of a house is……….:	Oxygen	Hydrogen	Carbon dioxide	Nitrogen
7	The decline in thickness of ozone layers is caused by increasing level of:	Chlorofluorocarbon	Nitrogen	Chlorine	Carbon dioxide
8	Ozone molecule is made up by binding of three atoms of:	Nitrogen	Hydrogen	Oxygen	Carbon
9	In pure form, ozone is:	Greenish	Reddish	Yellowish	Bluish
10	As CFC's rise to the atmosphere, the ultraviolet rays release:	Pollution	Effluent	Toxin	Pollutant

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Q. No. 2	Write short answers to any 14 questions.		28
(i)	Differentiate between renewable and non-renewable resources?	(ix)	Define soil and give its basic constituents?
(ii)	How energy can be obtained form solid waste?	(x)	Write four ways for conservation of energy?
(iii)	How depletion and degradation of resource occur on plants earth?	(xi)	Define demography?
(iv)	Differentiate between deforestation and afforestation?	(xii)	What are environment buffers?
(v)	Define population. Name its four types?	(xiii)	What is ozone layers and its advantages?
(vi)	What are green house gases? Also define green house and green house effect?	(xiv)	What is global warming? Write its effects?
(vii)	Give two effects of acid rain?	(xv)	What are two main source of water pollution?
(viii)	How algal bloom pollution may occur?	(xvi)	Explain briefly hoe pesticides effects the human foods?

Q. No. 3	Attempt any THREE questions.	12
(a)	Write a note on wild life and fossil fuels?	
(b)	Differentiate between deforestation and depletion of resource?	
(c)	What is acid rain? Explain its cause and effects on environment?	
(d)	Explain the phenomena of eutrophication?	

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Name: ____________		Grand Test Series [2022-23]	Time: 60 Mints	Marks: ____ / 40
Roll#. ________	Section:________	مثبت سوچیں ، خوش رہیں ۔ سوچ بدلیں ، معاشرہ بدلیں		2nd YEAR PAK STUDY CH#1

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01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

سوال نمبر 1 ہر سوال کے چار ممکنہ جوابات A، B، C اور D دیے گئے ہیں۔ اوپر دیئے گئے دائروں میں سے درست جواب کے مطابق متعلقہ دائرہ کو مارکر یا پین سے بھر دیجیے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کاٹ کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہو گا۔

نمبر شمار	سوالات	A	B	C	D
1	آئیڈیالوجی کس زبان کا لفظ ہے؟	اردو کا	عربی کا	فرانسیسی کا	یونانی کا
2	قرارداد لاہور پیش ہوئی؟	1930ء میں	1940ء میں	1945ء میں	1952ء میں
3	"اللہ کے نزدیک پسندیدہ دین اسلام ہے" جس سورت میں فرمایا:	سورۃ النساء	سورۃ آل عمران	سورۃ المائدہ	سورۃ البقرہ
4	سنت ایک اصطلاع ہے:	اردو زبان کی	فارسی زبان کی	یونانی زبان کی	جرمن زبان کی
5	"اخوت" کے معنی ہیں:	بھائی چارہ کے	باہمی تعاون کے	محبت و مروت کے	قوت و استحکام کے
6	اسلامی فلاحی ریاست کے کے فرائض میں شامل نہیں ہے:	اسلامی قوانین کا نفاذ	سہیولیات کی فراہمی	اجتماعی ترقی	جماعتی بالادستی
7	اعلیٰ درجہ کی عبادت کا مقام حاصل ہے:	خدمت خلق کو	نماز کو	روزہ کو	قیام الیل کو
8	جدیدیت میں شامل نہیں ہے:	جدید معاشرہ	مذہب کی پیروری	مادہ پرستی کی پوجا	پرانی روایات کی تردید
9	شملہ وفد وائسرائے ہند سے ملا:	1906ء میں	1907ء میں	1908ء میں	1909ء میں
10	اسلامی ریاست میں اقتدار کا اعلیٰ مالک ہوتا ہے:	قاضی	اللہ تعالیٰ	استاد	وزیر اعظم

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2۔	مندرجہ ذیل سوالات کے مختصر جوابات لکھئے۔	18
(i)	بقائے باہمی سے کای مراد ہے؟	
(ii)	سنت کے لفظی معنی اور مفہوم لکھیں۔	
(iii)	قرارداد پاکستان سے کیا مراد ہے؟	
(iv)	اسلام میں مساوات کی کیا اہمیت ہے؟	
(v)	دو قومی نظریہ کی تعریف لکھیں۔	
(vi)	خارجہ پالیسی سے کیا مراد ہے۔	
(vii)	جدیدیت سے کیا مراد ہے؟	
(viii)	رواداری کا سنہری اصول لکھیں۔	
(ix)	اسلامی فلاحی ریاست سے کیا مراد ہے؟	

3۔	سوالات کے جوابات تحریر کیجیے۔	Attempt all questions.	12
a	اسلام کے بنیادی اصول بیان کریں۔		
b	اسلامی فلاحی ریاست کی تعریف کریں اور اس کے فرائض تحریر کریں۔		

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Name: ______________________		Grand Test Series [2022-23]	Time: 60 Mints	Marks: ____ / 40
Roll#. ________	Section:________	مثبت سوچیں، خوش رہیں۔ سوچ بدلیں، معاشرہ بدلیں		2nd YEAR PAK STUDY CH#2

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01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

سوال نمبر 1 ہر سوال کے چار ممکنہ جوابات A، B، C اور D دیے گئے ہیں۔ اوپر دیئے گئے دائروں میں سے درست جواب کے مطابق متعلقہ دائرہ کو مار کر یا پین سے بھر دیجیے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کاٹ کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہو گا۔

نمبر شمار	سوالات	A	B	C	D
1	ملک میں پہلے انتخابات کس سال میں ہوئے؟	1964ء	1970ء	1972ء	1971ء
2	1956 کا آئین ملک میں نافذ رہا:	دو سال	اڑھائی سال	تین سال	چار سال
3	وفاق میں وزارت کا انتظامی سربراہ ہوتا ہے؟	صدر	سیکرٹری	گورنر	سپیکر
4	سیاسی جماعتوں کے فرائض میں شامل نہیں ہے؟	رائے عامہ تشکیل دینا	قومی مسائل سے آگاہی	انتخابی منشور سے آگاہی	باہمی اختلافات
5	ملک کا سربراہ ہوتا ہے؟	صدر	سیکرٹری	گورنر	وزیر اعظم
6	ملک کی سب سے بڑی عدالت ہے:	عدالت عظمیٰ	عدالت عالیہ	دیوانی عدالت	فوجداری عدالت
7	اپنی برانچ کا سربراہ ہوتا ہے۔ 19-18 گریڈ کا افسر ہوتا ہے:	صوبائی گورنر	سیکرٹری	ڈپٹی سیکرٹری	وزیر اعلیٰ
8	صوبہ سرحد کا نام "خیبر پختونخوا" رکھا گیا:	20ویں ترمیم میں	21ویں ترمیم میں	18ویں ترمیم میں	23ویں ترمیم میں
9	چیف الیکشن کمشنر کے اختیارات طے کیے گئے؟	20ویں ترمیم میں	21ویں ترمیم میں	18ویں ترمیم میں	22ویں ترمیم میں
10	صوبائی حکومت کا سربراہ ہوتا ہے؟	صدر	سیکرٹری	گورنر	سپیکر

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2۔	مندرجہ ذیل سوالات کے مختصر جوابات لکھیے۔	18
(i)	1973ء کے آئین کے مطابق مسلمان کی تعریف کریں۔	
(ii)	ون یونٹ سے کیا مراد ہے؟	
(iii)	سیکرٹری کے اختیارات و فرائض تحریر کریں۔	
(iv)	آئین میں آٹھارویں ترمیم کیوں کی گئی۔	
(v)	سیاسی جماعتوں کی ضرورت اور اہمیت بیان کریں۔	
(vi)	صوبائی کابینہ پر مختصر نوٹ لکھیں۔	
(vii)	مشرقی پاکستان کی علیحدگی پر نوٹ لکھیں۔	
(viii)	1962ء کے آئین کی منسوخی کی وجہ بیانا کریں۔	
(ix)	موجودہ حکومت کے بارے سطریں لکھیں۔	

3۔	سوالات کے جوابات تحریر کیجیے۔	Attempt all questions.	12
a	1956ء کے آئین کی اہم خصوصیات لکھیں۔		
b	1973ء کے آئین کے تحت وفاقی حکومت کا ڈھانچہ تحریر کریں۔		

Name: ____________	Grand Test Series [2022-23]	Time: 60 Mints	Marks: ____ / 40
Roll#. ______ Section: ______	مثبت سوچیں، خوش رہیں۔ سوچ بدلیں، معاشرہ بدلیں		2nd YEAR PAK STUDY CH#3

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01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

سوال نمبر 1 ہر سوال کے چار ممکنہ جوابات A، B، C اور D دیے گئے ہیں۔ اوپر دیئے گئے دائروں میں سے درست جواب کے مطابق متعلقہ دائرہ کو مار کر یا پین سے بھر دیجیے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کاٹ کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہو گا۔

نمبر شمار	سوالات	A	B	C	D
1	صوبائی فرائض کی انجام دہی کے لیے جو ادارہ قانون سازی کرتا ہے:	قومی اسمبلی	سینٹ	صوبائی اسمبلی	مقامی حکومتیں
2	کشمیر کونسل کے ارکان کی تعداد ہے:	12	14	16	18
3	گلگت بلتستان کونسل کے ارکان کی تعداد ہے:	12	14	16	18
4	پاکستان کی قومی سلامتی کونسل کی صدارت کرتا ہے:	صدر	وزیر اعظم	چیف آف آرمی سٹاف	چیف آف ایئر سٹاف
5	میٹروپولیٹن کارپوریشن کا سربراہ ہوتا ہے:	چیئرمین	چیئرپرسن	لارڈ میئر	میئر
6	ملک کے لیے فوج رکھتا ہے اور ضرورت کے وقت جنگ کا اعلان کرتا ہے:	صدر	وزیر اعظم	پارلیمنٹ	وفاق
7	کشمیر کونسل کے ارکان کی تعداد ہے:	13	14	15	16
8	آزاد کشمیر قانون ساز اسمبلی کے فرائض میں شامل نہیں:	قانون سازی	ثقافت کو ترقی دینا	پالیسی بنانا	بجٹ پاس کرنا
9	پاکستان پیپلز پارٹی نے ------------ میں شمالی علاقہ جات کو گلگت بلتستان کا نام دے کر محدود خود مختاری دی۔	2005ء	2007ء	2009ء	2008ء
10	وفاقی اور صوبائی حکومتوں کے درمیان جھگڑوں کو نپٹاتی اور وسائل کو تقسیم کرتی ہے:	قومی سلامتی کونسل	نیشنل اکنامک کونسل	مشترکہ مفادات کی کونسل	اسلامی نظریاتی کونسل

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2۔	مندرجہ ذیل سوالات کے مختصر جوابات لکھئے۔	18
(i)	صدر پاکستان کی کیا حیثیت ہے؟	
(ii)	وفاق کے دو فرائض لکھیں۔	
(iii)	کشمیر کنسل پر نوٹ لکھیں۔	
(iv)	یونین کونسل کا ڈھانچہ بیان کریں۔	
(v)	مشترکہ مفادات کی کونسل پر نوٹ لکھیں۔	
(vi)	آزاد کشمیر قانون سازی اسمبلی کے دو فرائض لکھیں۔	
(vii)	گلگت بلتستان کونسل کا ڈھانچہ بیان کریں۔	
(viii)	آئین کے آرٹیکل 159 سے کیا مراد ہے؟	
(ix)	میونسپل کمیٹی کا ڈھانچہ بیان کریں۔	

3۔	سوالات کے جوابات تحریر کیجیے۔	Attempt all questions.	12
a	صوبائی اور مقامی حکومتوں کے باہمی تعلقات کی وضاحت کریں۔		
b	مقامی حکومتوں کے مختلف درجات بیان کریں۔		

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Roll#. ________ Section:________	مثبت سوچیں، خوش رہیں۔ سوچ بدلیں، معاشرہ بدلیں		2nd YEAR PAK STUDY CH#4

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06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

سوال نمبر 1 — ہر سوال کے چار ممکنہ جوابات A، B، C اور D دیے گئے ہیں۔ اوپر دیئے گئے دائروں میں سے درست جواب کے مطابق متعلقہ دائرہ کو مار کر یا پین سے بھر دیجیے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کاٹ کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہو گا۔

نمبر شمار	سوالات	A	B	C	D
1	حضور نبی کریم ﷺ نے خطبہ حجتہ الوداع دیا:	9ہجری میں	10ہجری میں	11ہجری میں	12ہجری میں
2	برطانیہ میں میگنا کارٹا دستاویز بادشاہ نے دستخط کیے:	1015ءمیں	1115ءمیں	1215ءمیں	1315ءمیں
3	"اور جو اللہ کے نازل کردہ حکم کے مطابق فیصلہ نہ کرے تو وہی لوگ کافر ہیں" جس سورت میں ہے:	سورت البقرہ	سورت افاتحہ	سورت النساء	سورت المائدہ
4	گرفتاری کی صورت میں شہری کو مجسٹریٹ کی عدالت میں پیش کیا جاتا ہے:	20 گھنٹے میں	22 گھنٹے میں	24 گھنٹے میں	26 گھنٹے میں
5	"ماؤں نے انہیں آزاد جنا اور تم نے انہیں غلام کیسے بنالیا؟" قول ہے:	حضرت ابو بکر کا	حضرت عمر کا	حضرت عثمان کا	حضرت علی کا
6	حقوق دو طرح کے ہوتے ہیں۔ اخلاقی اور---------------۔	سیاسی حقوق	معاشرتی حقوق	قانونی حقوق	معاشی حقوق
7	جناب رسول اللہ ﷺ نے فرمایا"ہر فرد کی زندگی، جائیداد اور عزت دوسرے کے لیے------------ہے۔"	اہم	ضروری	مقدس	لازم
8	سیاسی حقوق میں شامل ہے۔	اظہار رائے کی آزادی	جائیداد رکھنے کا حق	مذہبی آزادی	معاشی آزادی
9	اسلام بلاامتیاز تمام افراد سے یکساں سلوک کی ہدایت کرتا ہے۔ یہ اصول ہے:	انصاف کا	مساوات کا	اظہار رائے کا	حکومت پر تنقید کا
10	اقوام متحدہ کے چارٹر کے مطابق پاکستان میں ہر شہری بلاامتیاز، مذہب، رنگ، نسل قانون کی نظر میں----------۔	برابر ہے	مختلف مقام رکھتا ہے	مختلف حقوق رکھتا ہے	مختلف فرائض رکھتا ہے

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2۔	مندرجہ ذیل سوالات کے مختصر جوابات لکھئے۔	18
(i)	معاشی حقوق سے کیا مراد ہے؟	
(ii)	انسانی حقوق کے عالمی منشور کو کب اور کس نے منظور کیا؟	
(iii)	انسانی حقوق سے کیا مراد ہے؟	
(iv)	مزدور کو اسلامی ریاست میں کیا اہمیت حاصل ہے؟	
(v)	اسلام میں شہریوں کے حقوق کے بارے میں کیا حکم ہے؟	
(vi)	جمہوریت اور حقوق کا تعلق کیا ہے؟	
(vii)	آفاقی فلسفہ میں انسانی حقوق کا کیا مقام ہے؟	
(viii)	معاشی حقوق کے سلسلے میں کوئی قرآنی آیت یا اس کا ترجمہ لکھیں۔	
(ix)	ادیان عالم میں حقوق و فرائض کا کیا درجہ ہے؟	

3۔	سوالات کے جوابات تحریر کیجیے۔	Attempt all questions.	12
a	اسلام میں انسانی حقوق کے تصور کی وضاحت کریں۔		
b	پاکستان میں اور قومی و بین الاقوامی سطح پر بنیادی انسانی حقوق کی نوعیت تحریر کریں۔		

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Name: ____________	Grand Test Series [2022-23]	Time: 60 Mints	Marks: ____ / 40
Roll#. ______ Section:______	مثبت سوچیں ، خوش رہیں ۔ سوچ بدلیں ، معاشرہ بدلیں	2nd YEAR PAK STUDY CH#5	

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01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

سوال نمبر 1 ہر سوال کے چار ممکنہ جوابات A، B، C اور D دیے گئے ہیں۔ اوپر دیئے گئے دائروں میں سے درست جواب کے مطابق متعلقہ دائرہ کو مار کر یا پین سے بھر دیجیے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کاٹ کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہو گا۔

نمبر شمار	سوالات	A	B	C	D
1	انگریزی لفظ ایجوکیشن کا معنی ہے:	نشوونما کرنا	سیکھنا	پرکھنا	آگے بڑھنا
2	ایلیمنٹری تعلیم کا دورانیہ ہے:	چھے سال	سات سال	آٹھ سال	نو سال
3	ابتدائی تعلیم سے اعلیٰ تعلیم تک مفت تعلیم فراہم کی جاتی ہے:	سرکاری اداروں میں	نجی اداروں میں	دینی مدارس میں	صنعتی تعلیمی اداروں میں
4	انٹرمیڈیٹ کے بعد ایل ایل بی کرنے میں جتنے سال لگتے ہیں:	دو	تین	چار	پانچ
5	انسان کو معاشرتی حیوان سمجھتا تھا:	ارسطو	سقراط	بقراط	افلاطون
6	لفظ Education کے معنی ہیں:	مخفی صلاحیتوں کو جلا دینا	لکھانا	سکھانا	پہنچانا
7	کچھ ماہرین کے مطابق "تعلیم معاشرے کے ساتھ---------پیدا کرنے کا عمل ہے۔"	مطابقت	اختلاف	نفرت	یکجہتی
8	جن کالجز میں دو سالہ گریجوایشن (ADP) کرائی جاتی ہے، کہلاتے ہیں:	ایسوسی ایٹ	انٹر کالجز	گریجوایٹ کالجز	ڈگری کالجز
9	کاشت کار کا بیٹا اپنے والدین کا ہاتھ بٹانے میں کاشت کاری سیکھ لیتا ہے یہ مثال ہے:	فاصلاتی تعلیم کی	رسمی تعلیم کی	نیم رسمی تعلیم	غیر رسمی تعلیم
10	پاکستان میں تعلیم کے مدارج ہیں:	2	3	4	5

2۔	مندرجہ ذیل سوالات کے مختصر جوابات لکھیے۔	18
(i)	لفظ تعلیم کے معنی لکھیں۔	
(ii)	پیشہ وارانہ اور عام تعلیم میں کیا فرق ہے؟	
(iii)	پرائمری تعلیم سے کیا مراد ہے؟	
(iv)	علامہ اقبال اوپن یونیورسٹی پر نوٹ لکھیں۔	
(v)	زرعی تعلیم سے کیا مراد ہے؟	
(vi)	اسلامی تعلیم کا مقصد اور نصاب کیسا ہے؟	
(vii)	فاصلاتی نظام تعلیم کا تعارف تحریر کریں۔	
(viii)	موجودہ حکومت نے مدارس کے نصاب میں کیا تبدیلیاں کی ہیں؟	
(ix)	تعلیم کے بارے میں ہر معاشرے کی کیا خواہش رہی ہے؟	

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3۔	سوالات کے جوابات تحریر کیجیے۔	Attempt all questions.	12
a	پاکستان میں نظام تعلیم کے مقاصد بیان کریں۔		
b	پاکستان میں تعلیم کے تصور سے کیا مراد ہے؟ پاکستان کے تعلیمی مسائل اور ان کا حل بھی تحریر کریں۔		

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01	Ⓐ Ⓑ Ⓒ Ⓓ	02	Ⓐ Ⓑ Ⓒ Ⓓ	03	Ⓐ Ⓑ Ⓒ Ⓓ	04	Ⓐ Ⓑ Ⓒ Ⓓ	05	Ⓐ Ⓑ Ⓒ Ⓓ
06	Ⓐ Ⓑ Ⓒ Ⓓ	07	Ⓐ Ⓑ Ⓒ Ⓓ	08	Ⓐ Ⓑ Ⓒ Ⓓ	09	Ⓐ Ⓑ Ⓒ Ⓓ	10	Ⓐ Ⓑ Ⓒ Ⓓ

سوال نمبر 1 ہر سوال کے چار ممکنہ جوابات A، B، C اور D دیے گئے ہیں۔ اوپر دیئے گئے دائروں میں سے درست جواب کے مطابق متعلقہ دائرہ کو مارکر یا پین سے بھر دیجیے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کاٹ کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہو گا۔

نمبر شمار	سوالات	A	B	C	D
1	انٹرنیشنل کرکٹ کونسل نے پاکستان کو بین الاقوامی کرکٹ مقابلوں میں حصہ لینے کی اجازت دی:	1951ء	1952ء	1953ء	1954ء
2	پاکستان نے پہلی مرتبہ ہاکی کا عالمی چمپئین بنا تو اس کے کپتان تھے:	خالد محمود	اختر الاسلام	سمیع اللہ	حسن سردار
3	1962ء میں حکومت پاکستان کی جانب سے تمغائے امتیاز سے نوازا گیا:	امام بخش	جھارا	بھولو	گاما
4	بادشاہ قطب الدین ایبک کھیلتے ہوئے گھوڑے سے گر کر جاں بحق ہوا:	کبڈی	گھڑ دوڑ	چوگان (پولو)	فٹ بال
5	پاکستان میں سیر و سیاحت کی ترقی کے لیے ادارہ قائم کیا گیا ہے:	PTDC	PCB	PTCL	PMA
6	کھیلوں کے برعکس باقاعدہ-----------بچوں کی طبع نازک پر گراں گزرتی ہے۔	تدریس	شاعری	تلخیص	تحقیق
7	پاکستان کا قومی کھیل ہے:	کرکٹ	فٹ بال	کبڈی	ہاکی
8	پاکستان کے ضلع چترال میں ہر سال جولائی میں پولو ٹورنامنٹ کھیلا جا رہا ہے:	1000 سال سے	2000 سال سے	3000 سال سے	4000 سال سے
9	پاکستان ٹورازم ڈویلپمنٹ کا قیام عمل میں آیا:	1962ء میں	1968ء میں	1972ء میں	1978ء میں
10	قلعہ رانی کوٹ واقع ہے:	پنجاب میں	کے پی کے میں	سندھ میں	بلوچستان میں

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2۔	مندرجہ ذیل سوالات کے مختصر جوابات لکھیے۔	18
(i)	ہاکی کی موجودہ صورتحال لکھیں۔	
(ii)	کھیل سے حاصل ہونے والے ذہنی فوائد تحریر کریں۔	
(iii)	سکواش میں پاکستان کی کارکردگی کا جائزہ لیں۔	
(iv)	ککلی کا کھیل کیسے کھیلا جاتا ہے؟	
(v)	کھیل اور سیر و سیاحت میں تعلق بیان کریں۔	
(vi)	کرکٹ میں پاکستانی ٹیم کی کارکردگی کا جائزہ لیں۔	
(vii)	اِن ڈور کھیل کونسی ہیں۔	
(viii)	پہلوانی میں کس کس نے نام کمایا۔	
(ix)	پاکستان کے سیاحتی مقامات کونسے ہیں؟	

3۔	سوالات کے جوابات تحریر کیجیے۔	Attempt all questions.	12
a	فٹ بال، لان ٹینس اور پولو پر نوٹ لکھیں۔		
b	پاکستان کے دیسی کھیلوں کا حال بیان کریں۔		